



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JULY 2, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
ANNUAL Report on the Police Administration of the Town of Calcutta and its suburbs for the year 1889	1389	STATEMENT showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 14th June 1890	1406
Rainfall, Weather, and State and Prospects of the Crops	1395	Areas leased for Irrigation up to the end of April 1890	1410
Meteorological Report of the Province of Bengal for the week ending Friday the 27th of June 1890	1398	Orissa Circle—Taldandah Canal System for the month of April 1890	1411
Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890	1400	Statement showing heights over mean sea-level and low water in the Rivers Ganges, Bhagiruthee, Jellinghee and Brahmapootra for the month of April 1890	1423
Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 22nd to 28th June 1890	1404	Circular and Eastern Canals for the week ending 28th June 1890	1424
Results of the Meteorological Observations taken at the Alipore Observatory from 22nd to 28th June 1890	1405	Nalhati State Railway for the month of May 1890	1424
		Weekly Return of Traffic Receipts on Indian Railways	1425

ANNUAL REPORT ON THE POLICE ADMINISTRATION OF THE TOWN OF CALCUTTA AND ITS SUBURBS FOR THE YEAR 1889.

RESOLUTION.

POLICE

Calcutta, the 27th June 1890.

READ—

The Annual Report on the Police Administration of the Town of Calcutta and its Suburbs for the year 1889.

Read also—

The Annual Reports of the Chief Presidency Magistrate and the Presidency Magistrate of the Northern Division on the Criminal Administration of their Courts for the year 1889.

The Reports for the year 1888 and the orders of Government thereon.

The following statement shows the number of cognizable and non-cognizable cases reported in the Town and Suburbs of Calcutta during 1889 and the two preceding years:—

	1887.	1888.	1889.
Cognizable	6,485	8,619	8,421
Non-cognizable	21,566	29,716	24,643
	6,566	6,759	5,627
	20,475	19,569	21,622
Total	55,092	63,663	60,383

* As in previous years, some offences under other Acts are included in this table with offences under the Penal Code.

The decrease in cognizable crime occurred mainly under the head of street offences. There were 12,543 such cases in 1889 against 16,793 in 1888. The increase in non-cognizable offences is due to the fact that the number of cases under the Conservancy Act rose from 18,617 in 1888 to 20,691 in 1889.

2. *Arrests and convictions.*—The number of persons arrested and summoned fell from 69,377 in 1888 to 56,762 in the year under review. The decrease occurred mainly under the heads (1) Public and local nuisances, (2) Miscellaneous offences under the Stage Carriage Act, (3) Street offences, and (4) Offences under Port Acts. The number of persons convicted was 49,003 against 61,865 in 1888. The percentage of convictions for cognizable offences fell from 94.68 to 93.30, and for non-cognizable offences from 71.12 to 65.99.

3. *False Cases.*—There were only 60 false cases out of a total of 50,297 reported in the Town and only 24 out of 10,086 reported in the Suburbs. In 1888 the numbers were 87 and 31, respectively, in the Town and the Suburbs. The Lieutenant-Governor observes with satisfaction that the proportion of false cases has been steadily decreasing year by year. In the Town, out of 20 prosecutions for false complaints, 12 ended in conviction, in 6 of which the complainants were sentenced to terms of imprisonment varying from two to six months, and in 6 only fines were inflicted. In 28 cases fines were inflicted under section 552 of the Code of Criminal Procedure, compensation being awarded in 25 cases to the aggrieved parties. In 3 cases the defendants were discharged, and in the remaining 9 cases the evidence was insufficient for further proceedings. No case was instituted by any Court *suo motu*.

In 10 out of the 16 prosecutions instituted in the Suburbs, the complainants were imprisoned for terms ranging from one to six months; in the other 8 false cases no persons were charged, and the complaints were not of a nature that warranted further proceedings.

4. *Property stolen and recovered.*—The value of the property stolen was Rs. 1,51,267 against Rs. 1,22,523 in 1888, and that of the property recovered Rs. 69,199 against Rs. 59,401 in 1888. In the Town the percentage of property recovered, 49.02, was the same as in the preceding year, but in the Suburbs there was a marked falling off from 43.89 to 35.06. This is said to have been mainly due to unsuccessful investigation in a heavy case of burglary which occurred near Tallygunge.

5. *Ratio of cognizable crime to area and population.*—The ratio of cognizable crime to population in the Town and Suburbs was as follows:—

	Area in square miles.	Population.	Proportion of crime to population.
Town	7.8	433,219	1 to 16.83
Suburbs	23	251,439	1 to 34.65

6. *Cognizable crime in the Town.*—The following statement shows the number of true cognizable cases reported within the town during the last three years:—

Crime.	1887.	1888.	1889.
Abetment of offence not committed ...	.....	.....	1
Class I—Offences against the State, &c. ...	49	43	32
„ II—Serious offences against the person ...	213	182	186
„ III—Serious offences against person and property ...	185	163	189
„ IV—Minor offences against the person ...	58	71	53
„ V—Minor offences against person and property ...	2,223	2,037	2,309
„ VI—Other offences not specified above ...	4,408	7,710	6,891
Special and Local laws ...	16,009	18,950	16,074
Total	23,145	29,156	25,735

There was a satisfactory decrease in offences relating to coin, the number of which was 5 against 13 in 1888. Six persons were arrested, of whom 4 were convicted and 2 discharged. The maximum sentence inflicted was 6 months' rigorous imprisonment.

There were 4 cases of murder against 6 in 1888. In one of these cases the accused, a Burman convict in the Presidency Jail, who in a sudden fit of passion killed the convict-warder, also a Burman, by a blow from a heavy block of wood, was sentenced to capital punishment. The same sentence was passed upon a seaman of the British barque *Roanoke*, who committed an indecent assault on a young

shipmate, and on being threatened with exposure, mortally stabbed him with a clasp knife, and also in the case of a constable of police who, in a fit of jealousy, cut the throat of a woman whom he was in the habit of visiting. In the remaining case the accused, who is a native of the Gwalior State, absconded. The Commissioner of Police says that communication will be maintained with the authorities of that State until his arrest is effected.

Cases of grievous hurt decreased to 17 from 26 in 1888, the average of the five preceding years being 33. Twenty-nine persons were arrested, of whom 14 were convicted and 15 discharged. It is said that these cases are frequently settled out of Court. There were 33 cases of hurt by dangerous weapons against 57 in 1888. Two highway robberies were committed by European soldiers stationed in Fort William. In the first case the offenders escaped, but in the second a man was apprehended and sentenced, on conviction, to one year's rigorous imprisonment.

True cases of burglary rose from 161 to 179, and the number of convictions from 95 to 119. The amount of property stolen was much smaller than in any of the four preceding years, but the proportion of property recovered was only 32·15 per cent. as compared with an average of 47·33 per cent. in those four years. The Lieutenant-Governor agrees with Mr. Lambert in thinking that the conditions of Eastern life, the habit which prevails so largely among native shop-keepers in the town of quitting their shops at night, and the general insecurity of dwelling-houses in this country, are very favourable to the commission of the offence of burglary in Calcutta. None the less the offence is very much less frequent in Calcutta than in mofussil towns, a fact which must be attributed to the better watch and ward maintained on Calcutta.

In theft cases there was an increase of 283 as compared with 1888. No explanation of the increase is given. The percentage of cases detected was 48·94 against 47·32 in 1888. The number of cases of criminal breach of trust fell from 269 to 261 in 1889. The most audacious offenders are said to be the drivers of bullock-carts who steal a registration plate from some other cart and hurry off with their load of cloth or grain into remote parts of the Suburbs, or to the railway, having previously arranged for the disposal of the goods at some distant market. The tin ticket, the number of which has probably been taken down by the merchant's sircar, is then removed and the proper ticket is re-affixed to the cart, or the cart is thrown aside as being of no further use. Nine such cases were successfully prosecuted during the year, but the offenders were all summarily dealt with and consequently received but light sentences. The Commissioner of Police suggests that all serious cases of this nature should be committed to the Sessions for trial. Out of 462 persons charged under the Gambling Act, 441 were convicted. In one case the keeper of a gaming house in Jorabagan, who had been previously convicted, was arrested on a warrant and sentenced to a fine of Rs. 5 only. Mr. Lambert rightly objects to such leniency on the part of the Magistrate who tried the case. Under the Stage Carriage Act there were 2,079 cases and 2,032 convictions, against 2,632 cases and 2,702 convictions in the previous year; the decrease is due to the fact that summary arrest is not now made for the offence of carrying excess passengers, procedure by summons being substituted for it. The officers of the Society for the Prevention of Cruelty to Animals did much good service throughout the year in prosecuting offenders under the Act, and over 98 per cent. of the persons arrested were convicted and punished. The barbarous practice of flaying goats alive was for the first time exposed, but the leniency of Magistrates in such cases as these, as well as in the numerous 'phooka' cases, seriously detracts from the good effect of the prosecutions. The Lieutenant-Governor hopes that the serious nature of such offences will be duly weighed by all Presidency Magistrates in similar cases in the future.

7. *Cognizable crime in the Suburbs.*—The following is a comparative statement of true cognizable crime during the past three years:—

Crime.		1887.	1888.	1889.
Class I—	Offences against the State, &c. ...	15	14	15
" II—	Serious offences against the person ...	77	53	75
" III—	Ditto against person and property ...	171	127	151
" IV—	Minor offences against the person ...	15	25	21
" V—	Ditto against property ...	709	738	630
" VI—	Other offences not specified above ...	717	1,534	651
	Special and local laws ...	3,073	6,604	5,662
Total ...		4,777	9,095	7,255

There was one case of an offence relating to Government currency notes. A native of Burrisal, in whose lodgings at Machooa Bazar counterfeit notes and two leaden plates prepared for forgery had been found, was sentenced to five years' rigorous imprisonment. An accomplice of his at Burrisal received a similar sentence, but it was quashed by the High Court. There were three cases of murder against one in 1888. In one of these cases the accused was on conviction sentenced to transportation for life. In the other two cases no clue was obtained to the murderers. There were three cases of culpable homicide, in one of which a Hindu of the labouring class, who committed a murderous assault on his wife, was sentenced to be hanged, but the High Court reduced the sentence to ten years' transportation. In a second case the accused were discharged by the High Court. In the remaining case the culprit escaped. It is satisfactory to observe that there were only 16 cases of grievous hurt against 21 in 1888 and an average of 25 in the five previous years. In one of these cases three policemen attached to the Tallygunge thana were on conviction sentenced to terms of rigorous imprisonment ranging from two to three years. There were 11 cases of kidnapping, in one of which a notorious offender, who decoyed a little girl from her house by promising her sweetmeats, and robbed her of her gold ornaments, was on conviction sentenced to seven years' transportation. The figures of detection and conviction under the head of burglary and lurking house-trespass are good, but the proportion of property recovered to property stolen is low, owing to the failure of the police to recover property valued at Rs. 6,500 stolen in one case near Tallygunge.

8. *Non-cognizable crime in the Town.*—As explained above, the large increase in the number of cases under this head occurred in conservancy prosecutions. There were 4 cases of forgery against 15 in 1888. Convictions were obtained in 2 cases. The number of cases of extortion was 15 against 17 in 1888. In two cases committed to the Sessions the offenders were sentenced to six and three years' rigorous imprisonment respectively. In one case a constable was sentenced to six months' imprisonment for extorting four annas from a milkman.

9. *Non-cognizable crime in the Suburbs.*—There was a decrease of 71 cases as compared with the previous year. This calls for no special notice.

10. *Suicides.*—The number of cases in the Town and Suburbs was 83 against 84 in 1888. In 36 per cent. of the cases death was caused by hanging, and in 28 per cent. by means of opium. Of the persons who committed suicide, 65 were Hindus, 10 Mahomedans and 8 Christians.

11. *Accidental deaths.*—There were 292 accidental deaths against 351 in 1888. One hundred and three deaths were due to drowning as against 152 in the previous year; 30 were caused by falls from trees and buildings, and 31 by carriages and horses. One hundred and forty-two drivers of public and private carriages were prosecuted for rash and furious driving, of whom 124 were convicted.

12. *Arms Act.*—The importation of fire-arms increased from 1,889 pieces in 1888 to 2,655 pieces in 1889. The Commissioner of Police attributes the increase to the importation of a cheaper class of weapon. There was an increase of 411 in the number of guns imported, and of 216 in the inland transport of guns. The imports of percussion caps rose from 15,470,000 to 23,384,000 in 1889, owing to the fact that the surplus stock in hand at the commencement of the year was much less than that at the commencement of 1888. The number of guns sold in Calcutta was 2,720 against 2,709 in 1888, of which only 957 were of native manufacture against 1,084 in 1888. There were seven prosecutions under the Act against 35 in the previous year.

13. *European Vagrancy Act.*—Thirty-three persons were admitted to the Workhouse under section 5 of the Act. Two persons were deported, 12 were shipped away as seamen, and 2 others provided with employment.

14. *Fire-Brigade Act.*—Nine fires occurred in the Town, 16 in the Suburbs and six in Howrah. The damage done is estimated at Rs. 1,38,490 against Rs. 12,53,480 in 1888. In only one case was there the loss of a human life. The most serious fire occurred at Narcoldanga, resulting in the destruction of a large quantity of hay and straw, and 14 tiled huts, worth in all Rs. 40,000. The fire lasted for four days and three hours.

15. *Strength and cost of the Police.*—The total cost of the Town Police was Rs. 4,52,725 against Rs. 4,60,302 in 1888, and that of the Suburban Police Rs. 1,58,255 against Rs. 1,60,066. The decrease in expenditure on both the Town and Suburban Police was due to minor causes and calls for no explanation.

16. *The Police Force.*—There were 1,972 up-country men in the police against 1,957 in 1888, and 173 Bengalis against 181 in 1888. The number of up-countrymen employed as officers was 99 against 78 Bengalis. The

Commissioner of Police observes that the natives of Lower Bengal possess many of the qualities essential for detective police work, but the salary of the two lower grades is altogether insufficient to induce young Bengalis of education to enter the police. The result is that the force is encumbered in these grades by an undue proportion of unintelligent up-countrymen who, except in physique, are inferior to the mass of people whose interests they are engaged to protect. The question of raising the salary of the lower grade of native officers to which Mr. Lambert properly attaches great importance should be made the subject of a separate communication. The percentage of casualties in the force was 9·74 against 11·40 in the previous year. Fifteen members of the force were punished judicially against 16 in 1888. Fifty-six men were dismissed and two men deserted, against 81 and 3 respectively in 1888. The number of vacancies was 288 against 337 in 1888. The decrease occurred chiefly under the heads of resignations and dismissals.

17. *Hotels, liquor shops, &c.*—Two hundred and sixty-eight certificates were granted for hotels, shops for the sale of exciseable articles, and native eating-houses in the Town, and 52 in the Suburbs, against 286 and 46 respectively in 1888. The fees realized amounted to Rs. 822, against Rs. 1,180 in the Town and to Rs. 235 against Rs. 198 in the Suburbs.

18. *Property found and restored.*—Property to the value of Rs. 20,668 was picked up and brought to the police office, and 88 per cent. of the amount was restored to the owners.

19. *Old offenders.*—Two hundred and seventy-eight old offenders were convicted in the Town against 257 in 1888. Of these, 80 had been convicted more than three times. In the Suburbs the corresponding figures were 83 and 16 against 132 and 19 in 1888. Eighty-eight notorious offenders were photographed on their release from jail, and their names registered by the Detective Department.

20. *Judicial work.*—The number of cases instituted in the Northern Division was 14,053, in the Southern Division 13,415, and before the Bench of Presidency Magistrates 21,149, against 15,289, 15,820 and 18,941 respectively in 1888. Of 35,768 persons appearing before the Courts, 32,732 were convicted and 2,911 acquitted. The ratio of conviction in cognizable cases was 96·84 in the Northern Court, 95·58 in the Southern Court, and 70·37 in the Bench Courts, and 57·78, 40·7 and 40·44 respectively in non-cognizable cases (excluding conservancy prosecutions). The total amount of fines imposed in the Southern Division was Rs. 37,253, of which Rs. 34,633-8-3 was realized; the corresponding figures in the Northern Division were Rs. 22,424-6 and Rs. 21,425-10. Sentences of whipping were passed on 75 persons, and 15 juvenile offenders were sent to the Alipore Reformatory. The total amount of fines imposed by Benches in municipal cases was Rs. 30,078 against Rs. 28,947 in 1888.

21. *Adjournments.*—The total number of cases adjourned was 422, of which 187 were before the Northern Division Court, 183 before the Chief Magistrate, and 52 before the Benches. Of these 52 cases only 34 were adjourned once. Out of 338 adjourned hearings in the Northern Division Court, 45 were heard on the following day; the corresponding figures in the Chief Magistrate's Court being 342 and 61. The Commissioner of Police considers that the practice of adjourning cases which are ready for hearing to some distant date not only imposes hardship on the large body of witnesses who belong to the poor and labouring classes, but exposes them to improper overtures from parties who will suffer if the witnesses speak the truth, and that efforts should be made to shorten the periods of adjournments in both the Presidency Courts. He is further of opinion that no case should, in the absence of special reason, be made over to a Bench which cannot be disposed of at a single sitting. The Lieutenant-Governor agrees in this view, and desires that the attention of the Chief Presidency Magistrate be drawn to the matter.

22. *Benches.*—The Chief Magistrate observes that, though there have been fewer cases of absence without notice on the part of Honorary Magistrates, absence on insufficient notice still continues. The list of attendance shows that out of 105 Honorary Magistrates only 13 have attended 20 times and more. The Lieutenant-Governor appreciates the services which these gentlemen have rendered to the administration of justice. There were 46 Honorary Magistrates who attended less than 10 times during the year.

Most of those who never attended at all were either in Europe or have since resigned.

23. *Personnel of the force*—Mr. J. Lambert was Commissioner during the greater portion of the year, while Mr. A. B. Barnard held the office of Deputy Commissioner throughout the year. The acknowledgments of the Lieutenant-Governor are due to both these officers for their efficient administration of the Department during the year. The names of the subordinate officers favourably mentioned have been noted.

ORDER.—Ordered that copies of this Resolution be forwarded to the Commissioner of Police, Calcutta, for information, and for communication to the Presidency Magistrates, and to the Commissioner of the Presidency Division for information.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 28th June, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan June 28, '90	12.31	Heavy rain all over the district. Sowing of <i>amun</i> and <i>aus</i> nearly finished. Transplanting of <i>amun</i> commenced in some places. Sugarcane doing well. Prices of common rice:—
	Culna ...	11.56	
	Cutwa ...	13.64	
	Ranigunge ...	13.49	
	2 Bankoora „ 28, '90	6.84	Weather—cloudy. Heavy rain during the week. Transplanting of rice going on in low lands in some places and in others fields are being prepared for it. Young seedlings coming on well. Sugarcane and other standing crops thriving. Cotton is being gathered in Bishenpore with a 12-anna outturn. Common rice is selling at 17½ seers per rupee at Sudder and 17 seers at Bishenpore.
	3 Birbhum „ 28, '90	10.69	Very heavy rain at the beginning of the week. Sowing of <i>amun</i> almost completed, under very favourable circumstances.
	Rampore Haut ...	10.05	
	4 Midnapur „ 28, '90	13.09	Heavy and frequent rain. Sowing and transplanting somewhat checked by heavy rain. No damage by floods as yet reported. Prices of common rice:—
			Srs. Burdwan ... 17 Culna ... 14 Cutwa ... 14½ Ranigunge ... 15½ } per rupee.
	5 Hooghly „ 28, '90	10.32	Much rain in the earlier part of the week; weather fair since Thursday (26th). All crops doing very well. There is some mention of floods in Jehanabad. Prices of common rice:—
	Serampore ...	7.11	
	Jehanabad ...	12.21	
			Srs. Sudder ... 15 Tumlook ... 14 Ghatal ... 16 Contai ... 18 } per rupee.
	Howrah „ 28, '90	5.90	Weather—cloudy and wet. <i>Aus</i> , <i>amun</i> , sugarcane, and jute doing well so far. Damage to crops on low lands in the Uluberia subdivision is likely to occur if rain continues. Coarse rice 14 to 15 seers per rupee.
	6 24-Perghs. June 28, '90	7.14	Weather—rainy at the beginning of the week; hot and cloudy at the end. Prospects of all standing crops favourable. Transplanting of <i>amun</i> going on, and ploughing continues. Prices stationary.
	7 Nuddes „ 28, '90	11.41	8.17 inches of rain fell on Sunday (22nd). The fall has been general throughout the district. Prospects and condition of the crops on the ground are very good.
	Kushtea ...	3.26	
	Meherpore ...	4.56	
	Chuadanga ...	4.77	
	Ranaghat ...	8.69	
PRESIDENCY DIV.	8 Khoolna „ 28, '90	9.70	Heavy rain in the early part of the week; hot and clear weather in the latter part. Prospects and condition of all crops good.
	Bagirhat ...	16.02	
	Satkhira ...	9.09	
	9 Jessore „ 28, '90	15.23	Weather—cloudy and rainy. No injury to crops reported from the heavy rain of the 21st and 22nd. Prospects continue favourable.
	Jhenidah ...	5.86	
	Magura ...	4.34	
	Narail ...	8.81	
	Bongong ...	5.98	
	10 Moorsshedabad „ 28, '90	7.02	Weather—cloudy and sultry. <i>Bhadoi</i> being weeded. Sowing of <i>amun</i> going on. Prospects good.
	11 Dinagepur „ 28, '90	3.79	Weather—seasonable. Transplanting of <i>haimanti</i> paddy in progress. Prospects of standing crops good. Price of rice at Sudder and Thakurgaon stationary.
	Thakurgaon ...	10.42	
	12 Rajshahye „ 28, '90	Figures not given	Weather—quite seasonable. Jute, <i>aus</i> , and <i>amun</i> all flourishing. The rain has done much good, but a break was necessary. This is already being experienced.
	Nattore ...	11.59	
	Nowgong ...	7.67	
	13 Rungpur „ 28, '90	7.55	Weather—cloudy. Heavy rain falls every day. The rainfall retards the process of transplanting the <i>amun</i> rice. It is equally unfavourable to the <i>aus</i> harvest, which is now in full swing. Prospects generally good, but dry weather is much needed.
	Kurigram ...	8.12	
	Nilphamari ...	8.09	
RAJSHAHYE DIV.	14 Bogra „ 28, '90	6.01	Weather—seasonable. State and prospects of all crops good. Rice, jute, and sugarcane thriving, and transplantation of <i>amun</i> has begun in some places.
	Sherpur ...	10.82	
	Nowkhilla ...	6.63	
	15 Pubna „ 28, '90	3.20	Weather—cool and cloudy. The late incessant rain has somewhat damaged the jute crop standing on the higher land, but the prospects of the <i>amun</i> and <i>aus</i> crops continue to be good. Prices rule as before.
	16 Darjeeling „ 28, '90	14.71	Weather—rainy. Continued rain in the Terai is injuring the jute and <i>bhadoi</i> crops, and a break for some days is wanted.
	17 Julpigorse „ 28, '90	7.28	Weather—sultry and cloudy; rainy at times. Condition of the young plants of <i>bhadoi</i> and jute good. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca June 28, '90	5.84	Weather—rainy and cloudy. Rice and jute thriving. Harvesting of <i>aus</i> paddy in chur lands continues. Common rice sold at from 12 to 15 seers per rupee.
	19 Furreedpur „ 28, '90	4.54	Weather—rainy with occasional breaks. Prospects of standing crops favourable. <i>Zil</i> being harvested. Prices of common rice:— <div style="text-align: right; margin-right: 20px;"> Srs. Sudder ... 13 Gealundo ... 16 Madaripur ... 14 </div> } per rupee.
	20 Backergunge „ 28, '90	11.48	Weather—seasonable. Prospects of crops good. Common rice selling at from 12 to 16 seers per rupee.
	21 Mymensingh „ 28, '90	9.31	It is raining every day, and the weather is cloudy and comparatively cool. State of crops favourable. <i>Amun</i> sowings going on. Condition of <i>aus</i> paddy and jute good. Coarse rice selling at 13½ seers per rupee.
Chittagong Divn.	22 Chittagong „ 28, '90	13.27	Weather—seasonable. The heavy rainfall has done much good. <i>Aus</i> sown in some places. Prospects of <i>pania aus</i> good. Price of common rice steady.
	23 Noakholly „ 28, '90	9.58	Weather—cloudy and rainy with high wind. State and prospects of crops good. Sowing of <i>amun</i> progressing. Heavy flood in Chagunaya and Parsuram. Unless it subsides at once it may injure the crops.
	24 Tipperah ...	...	Report not received.
	25 Chittagong Hill Tracts. 26, '90	8.58	Weather—rainy and cloudy throughout the week. <i>Jum</i> paddy and cotton plants progressing. Prospect of rice crop good. Sowing in seed-bed by plough-cultivators commenced. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.			
Patna Divn.	Hill Tipperah ...	...	Report not received.
	26 Patna „ 28, '90	5.52	Weather—hot. Sowing of paddy is fast going on. Transplanting of <i>marua</i> continues. Other <i>bhadoi</i> crops are being sown. Harvesting of <i>cheena</i> nearly finished. Prices of food-grains stationary.
	Barh ...	5.70	
	Behar ...	10.11	
	Dinapore ...	4.78	
	27 Gya „ 28, '90	9.29	Weather—hot and cloudy. Sowing of <i>marua</i> and <i>makai</i> going on. Sugar-cane doing well. Prices of food-grains stationary.
	28 Shahabad „ 28, '90	9.59	Weather—cool. Heavy rain during the week has done much good. Prospects generally favourable.
	Buxar ...	5.35	
	Sasseram ...	7.99	
	Bhabuah ...	7.20	
	29 Durbhanga „ 28, '90	4.50	Weather—cloudy. <i>Bhadoi</i> cultivation progressing favourably. Transplanting of <i>marua</i> commenced in places. Prospects very satisfactory. Indigo manufacture commenced. Prices almost stationary.
	Madhubani ...	2.47	
Bhagalpore Divn.	Somastipur ...	6.46	
	30 Mozufferpur „ 28, '90	5.15	The week has been very rainy throughout the district, and two or three days of sunshine would be beneficial. The temperature has fallen considerably. Sowing of rice and <i>makai</i> continues. All crops on the ground doing well.
	Hajipur ...	6.53	
	Sitamarhi ...	2.97	
	31 Sarun „ 28, '90	7.50	Weather—cloudy and rainy. <i>Bhadoi</i> sowings nearly completed. Paddy sowings in full progress. Indigo manufacture will shortly commence.
	32 Champaran „ 28, '90	6.54	Weather—cloudy and rainy. Good rain all over the district. <i>Bhadoi</i> and <i>aghani</i> sowings still going on. Transplantation has commenced in some places.
	Bettiah ...	5.73	
	33 Monghyr „ 28, '90	10.37	Weather—very wet and cloudy. <i>Bhadoi</i> sowings going on well except in Jamui, where excessive rain has swamped the young growth. Indigo promises well.
	Begusarai ...	5.41	
	Jamui ...	12.41	
	34 Bhagulpur „ 28, '90	6.10	Heavy rain during the week with very little sunshine. Prospects everywhere good. Seedlings doing well, and transplantation of <i>bhadoi</i> and <i>aghani</i> paddy going on. <i>Mung</i> harvest nearly over.
	Banka ...	6.88	
Bhagalpore Divn.	Mudhepura ...	6.80	
	Sopool ...	3.98	
	35 Purneah „ 28, '90	5.53	Weather—cloudy with showers. <i>Bhadoi</i> rice and jute are being weeded and are doing well. Indigo is being manufactured. <i>Aghani</i> transplanting going on.
	Kishengunge ...	5.17	
	Arrureah ...	5.72	
	36 Maldah „ 28, '90	4.04	Weather—much cooler. Heavy showers almost every day of the week throughout the district. Sowing of <i>bhadoi</i> paddy still going on; in some places it is being weeded. Sowing of winter rice also going on. State of mulberry good. Common rice selling at from 13 to 18 seers per rupee.
	Chanchal ...	2.79	
	Shibgunge ...	5.46	
	Gajole ...	2.92	
	37 Sonthal Pergas. „ 28, '90	11.16	Weather—wet and cloudy. Rain every day, and cultivators everywhere busy ploughing, sowing and preparing ground for transplantation. Both <i>makai</i> and paddy crops doing fairly well. A few fine days wanted. More rain will harm the <i>jonara</i> .
	Deoghur ...	7.95	
	Godda ...	5.75	
	Jamtara ...	19.77	
	Pakour ...	6.82	
	Rajmehal ...	4.35	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack	...	Report not received.
	39 Pooree	...	Report not received.
	40 Balasore June 28, '90	1.72	Weather—cloudy with constant showers. The <i>beali</i> rice sowings have been most successful. Prospects generally good. Number of coolies on relief-works 78.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh June 28, '90	4.21	Weather—seasonable. Ample rain all over the district. Sowings of paddy and <i>bhadoi</i> crops well advanced everywhere and completed in some places. Prospects good. Rice selling at from 15 to 20 seers per rupee.
	42 Lohardugga „ 28, '90	3.29	Weather—seasonable. Sowing of winter rice going on. Prospects of <i>bhadoi</i> good. Sugarcane in Palamow good. Prices steady.
	Palamow (up to 23rd June)	4.05	
	43 Singbhoom June 28, '90	3.51	Weather—seasonable. <i>Bhadoi</i> and rice crops doing well. Price of rice ranges from 18 to 24 seers per rupee.
CHOTA NAGPORE DIVN.	44 Manbhoom „ 28, '90	8.33	Weather—seasonable. Heavy rain during the week. Sowing going on vigorously. Rice selling at from 18 to 28 seers per rupee.
	Govindpore	10.74	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 1st July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.														
			DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.							
					Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.
ORISSA.	Pooree	Pooree	29.632	29.644	—	SW	422.2	89.2	27th June	77.6	21st June	86.8	80.2	83.5	—	83.0	
	Gopalpore	Gopalpore	29.631	29.633	+0.033	SSW	539.9	87.2	21st, 22nd June	80.3	24th, 25th June	85.7	81.5	83.6	—0.5	83.0	
	False Point	False Point	29.613	29.635	+0.030	SW	397.7	83.5	27th "	76.6	21st "	86.3	79.2	82.8	—2.0	83.2	
	Cuttack	Cuttack	29.557	29.638	+0.007	SW	140.7	93.4	26th "	77.9	21st, 27th June	89.5	79.0	84.2	—2.7	83.1	
	Balasore	Balasore	29.558	29.617	—0.005	SW, SSW	233.3	90.7	27th "	75.7	21st "	87.5	77.3	82.4	—2.5	81.4	
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.584	29.610	—0.003	SSW	657.1	90.2	27th "	76.0	23rd "	86.6	80.4	83.5	—2.4	83.2	
	South 24-Pergunnahs	Midnapore	29.440	29.591	—0.035	S	205.0	93.3	27th "	72.2	22nd "	86.4	76.3	81.4	—4.5	80.4	
	24-Pergunnahs	Calcutta	29.569	29.590	—0.031	SW	185.1	90.5	27th "	75.2	26th "	85.6	77.3	81.5	—3.1	81.2	
	Howrah	Burdwan	29.465	29.565	—0.053	South-westerly	160.4	93.1	27th "	75.4	25th "	87.5	77.5	82.5	—4.0	80.0	
	Hooghly	Bankoora	29.254	29.554	—0.039	Calm	141.0	93.1	27th "	75.6	23rd—25th June	86.1	76.8	81.5	—	79.3	
	Burdwan	Raneegunge	29.237	29.570	—0.042	SW	122.8	92.5	27th "	76.4	25th "	86.6	77.2	82.3	—4.2	79.6	
	Moorshedabad	Berhampore	29.490	29.567	—0.067	Variable	179.7	92.2	22nd, 27th June	74.8	25th "	88.6	77.3	83.0	—2.3	80.3	
	Nuddea	Krishnagar	29.519	29.567	—0.048	Southerly	184.6	92.3	27th "	74.8	25th "	88.0	77.0	82.5	—3.4	81.0	
	Jessore	Jessore	29.549	29.583	—0.063	SE	80.2	93.2	27th "	76.4	23rd "	87.2	78.8	83.0	—2.0	81.5	
	Khoolna	Chittagong	29.591	29.681	—0.034	SSE		88.1	21st "	72.5	25th "	83.3	75.5	79.4	—1.2	79.0	
EAST BENGAL.	Chittagong Hill Tracts	Demagiri					Observations not received.										
	Backergunge	Barrisal	29.610	29.622	—0.046	S	156.0	89.3	27th June	74.4	22nd, 24th June	84.0	76.5	80.3	—2.7	80.3	
	Noakholly	Noakholly	29.607	29.651	—0.036	SE	205.0	87.0	25th "	72.8	24th "	84.5	75.9	80.2	—1.5	79.9	
	Furreedpore	Furreedpore	29.570	29.610	—0.044	S	173.9	89.5	27th "	75.9	24th "	85.1	77.7	81.4	—1.9	80.2	
	Dacca	Dacca	29.580	29.603	—0.056	S	242.3	89.6	27th "	74.2	24th "	85.4	76.6	81.0	—2.9	80.2	
	Commillah	Commillah	29.600	29.636	—0.040	SE, SW	191.9	89.4	21st "	73.8	24th "	84.7	76.7	80.2	—2.5	79.3	
	Mymensingh	Mymensingh	29.549	29.607	—0.061	ESE	156.2	88.7	21st "	75.6	24th "	84.8	76.9	80.9	—1.2	78.8	
	Bogra	Bogra	29.508	29.571	—0.036	SE	125.2	92.3	27th "	74.1	25th "	87.1	76.6	81.8	—1.9	80.6	
	Pubna	Serajgunge	29.538	29.585	—0.065	S	83.3	89.6	27th "	74.7	25th, 27th June	86.0	76.5	81.3	—2.0	79.9	
	Rajshahye	Rampore Beau-loc.	29.491	29.561	—0.052	South-easterly	202.1	90.8	27th "	74.6	25th "	87.2	77.4	82.3	—1.3	82.1	
NORTH BENGAL.	Maldah	Maldah	29.478	29.554	—0.001	E	90.1	92.5	27th "	74.7	25th "	88.0	77.4	82.7	—	81.1	
	Dinapore	Dinapore	29.447	29.568	—0.081	Easterly	129.9	92.1	27th "	77.1	24th "	88.3	79.0	83.7	+0.8	79.3	
	Rangpore	Rangpore	29.485	29.613	—0.057	Variable	313.1	90.8	27th "	75.7	25th, 26th June	88.9	77.1	83.0	+1.4	80.3	
	Julpigoree	Julpigoree	29.297	29.586	—0.082	?	?	89.9	22nd "	71.1	23rd "	87.5	74.3	80.9	—0.1	79.3	
	Cooch Behar	Darjeeling Hill Tracts	29.836	—	—0.049	Variable	140.9	63.6	27th "	56.1	22nd, 24th, 26th June	62.4	56.4	60.5	—1.7	69.0	
	Darjeeling Hill Tracts	Purneah	29.423	29.550	—0.069	Variable	103.6	92.7	27th "	74.4	25th "	87.8	77.5	82.7	—1.2	81.3	
	Purneah	North Bhagulpore					Complete observations not to hand.										
	Mozufferpore	Mozufferpore															
	Durbhunga	Durbhunga	29.394	29.561	—0.051	ESE	115.7	91.9	23rd June	—	—	88.2	—	—	—	81.2	
	Chumpran	Motibari	29.337	29.565	—0.034	ESE	201.0	91.2	27th "	75.9	25th, 26th June	88.6	77.2	82.9	—2.0	80.4	
SOUTH BENGAL.	Saran	Chupra	29.348	29.541	—0.061	SE	138.5	91.3	27th "	75.6	25th "	87.6	77.5	82.6	—3.6	81.2	
	Shahabad	Dehree	29.198	29.532	—0.037	S-wly	120.2	93.3	23rd "	75.0	23rd "	87.5	77.0	82.6	—3.7	81.1	
		Buxar	29.294	29.536	—0.057	Southerly	185.8	89.9	23rd "	75.3	25, 26 "	87.1	76.9	82.0	—4.4	80.0	
		Arrah	29.343	29.538	—0.056	ESE	90.6	90.4	27th "	76.6	21, 24 & 25th June	87.8	77.6	82.7	—4.4	81.9	
	Gya	Gya	29.188	29.506	—0.038	Variable	167.8	92.9	27th "	75.8	24th "	85.6	78.5	83.6	—4.7	81.1	
	Patna	Bankipore	29.359	29.542	—0.069	Variable	122.2	91.9	24th "	76.2	25th, 26th June	88.3	77.6	83.0	—4.2	80.8	
	South Bhagulpore	Bhagulpore	29.369	29.531	—0.073	Calm	93.1	92.7	27th "	75.0	25th "	86.0	78.0	82.3	—2.2	81.9	
	Monghyr																
	South 24-Pergunnahs	Doomksa	29.047	29.543	—0.058	Variable	151.9	91.4	27th "	78.3	25th "	86.7	76.7	81.7	—3.9	80.0	
	Hazareibagh	Hazareibagh	27.580	29.580	—0.042	WSW	276.6	86.5	27th "	70.2	25th "	81.4	72.9	77.2	—5.5	76.0	
ASSAM.	Lohardugga	Ranchee	27.465	29.579	—0.037	SW	103.3	84.0	23rd "	70.9	24th "	80.9	72.0	76.5	—3.7	75.0	
	Manbhoom																
	Singbhoom	Chyetassa	28.822	29.586	—0.063	WSW	170.8	92.9	27th "	74.7	24th "	85.2	76.3	81.8	—5.0	79.0	
		Sibsagar	29.350	29.664	—0.028	South-westerly	92.6	92.6	27th "	76.0	25th "	90.1	77.7	83.9	+0.2	80.4	
NAGPUR.	Assam	Dhubri	29.484	29.601	—0.063	North-easterly	172.9	87.2	22nd "	75.3	25th "	84.4	76.9	80.7	+0.8	79.0	
		Silchar	29.560	29.665	—0.046	ESE		93.5	21st "	78.3	24th "	85.4	76.2	82.3	+0.1	79.0	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last 10 years. The humidity of the atmosphere is expressed in percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional stations for the period in question during the year. The number of stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 27th of June 1890.

					DISTRICT OBSERVATIONS.														
Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.										Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.		
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.							
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.									
86	6.7	0.29		2.41		6.57				8.23			3.2	Pooree	Pooree	ORISSA.			
83	4.9	0.30												Gopalpore					
85	8.3	1.04												False Point					
79	8.7	0.73	1.02	2.40	8.15	7.57	+0.58	11.05	9.64	+1.41	3.4	3.3	Cuttack	Cuttack	SOUTH-WEST BENGAL.				
87	7.0	2.21	3.00	2.52	9.95	7.38	+1.57	14.18	9.95	+4.23	4.5	3.4	Balasore	Balasore					
89	9.3	5.66	4.94	2.92	9.67	8.69	+0.98	16.64	10.93	+5.71	5.7	3.9	Saugor Island	South-West Midnapore South 24-Pergunnahs	SOUTH-WEST BENGAL.				
82	6.3	13.34	8.27	2.36	13.71	8.60	+5.11	19.91	10.64	+9.27	6.7	3.6	Midnapore	Midnapore					
89	7.7	7.56	8.41	2.29	14.28	8.93	+5.35	18.92	11.60	+7.32	6.0	4.2	Calcutta	24-Pergunnahs... Howrah Hooghly	SOUTH-WEST BENGAL.				
88	9.7	12.31	12.70	2.31	18.78	8.19	+10.59	21.61	10.81	+10.80	7.0	3.7	Burdwan	Burdwan					
90	8.6	7.19	8.43	2.56	13.22	9.01	+4.21	17.23	11.13	+6.15	6.0	3.9	Bankoora	Bankoora	SOUTH-WEST BENGAL.				
91	6.1	13.40	11.00	3.09	16.03	9.14	+6.89	17.80	11.14	+6.66	6.0	4.2	Raneegunge	Berhampur West Bardwan					
95	9.0	7.43	6.31	2.50	11.00	8.45	+2.55	13.58	11.57	+2.01	5.2	3.6	Berhampore	Moorshedabad	SOUTH-WEST BENGAL.				
87	8.0	11.41	6.43	2.20	11.78	9.11	+2.67	15.57	12.61	+2.96	6.0	3.8	Krishnagur	Nuddea					
93	9.0	15.62	9.52	2.80	14.23	11.31	+2.92	18.89	14.68	+4.21	5.9	4.3	Jessore	Jessore Khoolna	SOUTH-WEST BENGAL.				
90	9.1	12.18	18.52	7.16	24.63	26.63	-2.00	29.12	31.90	-2.78	7.0	5.3	Chittagong	Chittagong					
				4.48		18.17			22.44				5.0	Demagiri	Chittagong Hill Tracts	EAST BENGAL.			
92	9.3	12.84	10.69	5.08	15.95	17.65	-2.70	21.61	21.54	+0.07	6.3	5.3	Barrisal	Backergunge					
93	5.9	10.23	11.50	6.54	19.19	25.34	-6.15	27.20	30.11	-2.91	7.0	5.0	Noakholly	Noakholly	EAST BENGAL.				
93	8.6	4.43	4.48	2.68	8.68	11.29	-2.61	12.22	15.62	-3.40	4.7	4.5	Furreedpore	Furreedpore					
94	9.6	5.73	6.56	2.96	11.86	11.98	-0.12	20.53	16.04	+4.49	6.3	4.5	Dacca	Dacca	EAST BENGAL.				
91	7.1	8.60	6.14	3.57	14.38	15.40	+1.02	20.57	19.64	+0.93	4.8	4.9	Commillah	Tipperah					
95	9.4	8.63	7.97	3.74	19.20	16.04	+3.16	26.77	20.99	+5.78	6.2	4.9	Mymensingh	Mymensingh	NORTH BENGAL.				
90	7.3	7.92	8.31	3.68	15.89	12.08	+3.81	20.26	16.67	+3.59	6.3	4.4	Bogra	Bogra					
93	9.6	6.55	4.52	2.58	10.25	10.35	-0.10	16.40	14.15	+2.25	6.0	4.5	Serajgunge	Pubna	NORTH BENGAL.				
89	4.0	9.91	10.80	2.86	17.50	9.74	+7.76	22.20	13.25	+8.95	6.0	3.9	Rampore Beaulah	Rajshahye					
92	5.9	4.04	3.42	4.38	9.08	10.77	-1.69	12.10	13.55	-1.45	6.5	4.7	Maldah	Maldah	NORTH BENGAL.				
91	9.6	3.93	4.85	4.19	14.70	12.30	+2.40	18.17	16.47	+1.70	6.0	4.5	Dinagopore	Dinagopore					
89	5.9	5.60	7.27	6.21	27.09	19.62	+7.47	31.34	27.31	+4.03	6.0	4.8	Rangpore	Rangpore	NORTH BENGAL.				
94	4.1	6.89	7.15	9.89	42.41	29.13	+13.28	45.95	37.89	+8.06	6.4	5.0	Jalpigoree	Jalpigoree Cooch Behar					
99	10.0	14.71	10.54	8.34	28.80	25.30	+3.50	33.23	32.08	+1.15	7.0	6.0	Darjeeling	Darjeeling Hill Tracts	NORTH BENGAL.				
92	7.1	4.41	4.57	3.38	14.47	10.59	+3.88	16.65	13.63	+3.02	5.8	3.7	Purneah	Purneah North Bhagulpore					
			4.79	2.35	7.41	6.80	+0.61	9.19	8.17	+1.02	6.3	3.1	Mozufferpore	Mozufferpore	NORTH BENGAL.				
87	7.4	4.50	5.15	2.37	8.85	7.03	+1.82	10.04	8.40	+1.64	6.7	3.3	Durbhunga	Durbhunga					
88	7.7	6.60	6.14	2.62	11.11	7.20	+3.91	11.83	8.55	+3.28	5.0	3.3	Motihari	Champanun	NORTH BENGAL.				
86	5.3	7.90	6.57	2.54	9.73	5.49	+4.24	11.40	6.62	+4.78	5.3	3.4	Chupra	Sarun					
85	6.3	6.78												Dehree		SOUTH BENGAL.			
89	6.3	4.54	5.04	2.11	8.83	4.21	+4.62	9.42	5.08	+4.34	6.4	3.0	Buxar	Shahabad					
88	5.1	9.59												Arrah					
82	8.3	9.29	10.23	2.07	12.36	4.99	+7.37	13.27	6.36	+6.91	6.3	2.9	Gya	Gya	SOUTH BENGAL.				
89	9.4	5.52	6.24	2.39	7.85	5.49	+2.36	9.15	6.94	+2.21	6.3	3.1	Bankipore	Patna					
90	8.9	6.63	7.57	2.36	11.31	6.10	+5.21	13.48	7.72	+5.76	6.0	3.5	Bhagulpore	South Bhagulpore Monahyr					
88	7.1	11.16	9.38	2.63	13.49	7.94	+5.55	15.86	10.37	+5.49	6.3	3.8	Doomka	Sonthal Pergunnahs	CHUTTA NAGPUR.				
88	10.0	5.44	6.78	2.47	10.63	6.97	+3.66	10.67	8.53	+2.14	5.4	3.7	Hazaribagh	Hazaribagh					
84	9.7	4.28	4.14	2.55	7.24	6.58	+0.66	8.69	8.32	+0.37	5.7	4.1		Lohardugga					
			9.51	2.55	11.89	7.30	+4.59	13.29	8.96	+4.33	5.5	4.4		Manthoom		ASSAM.			
83	8.0	3.78	3.51	2.48	6.43	7.64	-1.18	9.55	10.21	-0.66	6.0	4.5	Chyabassa	Singbhoom					
94	10.0	3.31												Sibsagar					
93	9.7	4.34												Dhulai	Assam	ASSAM.			
91	9.7	6.09												Silchar					

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Number of rainy days.	of Rainfall week.				
ORISSA	Pooree	Pooree	0.03	0.08	0.04	0.32	.....	.....	.....	4	0.47	8.21	6.44	10.05	7.01
		Khurdah	0.75	.....	0.38	0.02	.....	.....	.....	3	1.15	11.45	7.65	15.29	9.76
		Banpur	.....	.....	0.61	.....	.....	.....	.....	.....	.....	6.07	.....	.....	6.98
		False Point	0.38	0.19	0.26	0.08	0.02	.....	0.11	6	1.04	8.75	6.13	11.06	8.53
		Gor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Cuttack	Satpura	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Pipili	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jagatsingapore	.....	0.20	.....	.....	.....	.....	.....	1	0.20	7.28	5.32	7.78	6.74
		Banki	0.06	.....	0.14	.....	.....	.....	0.33	3	1.43	9.12	7.35	12.27	8.83
		Cuttack	0.34	.....	0.15	0.18	.....	.....	0.36	4	1.03	11.70	6.92	15.91	12.63
SOUTH-WEST BENGAL.	Balasore	Kendrapara	0.05	0.02	0.18	0.05	.....	.....	0.05	5	0.35	4.42	7.12	8.03	9.14
		Jajpore	0.37	.....	1.10	0.32	.....	0.32	.....	4	2.11	8.19	8.34	14.11	10.87
		Dharmasala	.....	1.00	0.55	.....	0.55	.....	.....	3	2.10	11.33	.....	15.83	.....
		Saltpore	0.35	0.3	0.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Chandhali	0.22	.....	0.74	0.16	.....	.....	0.22	4	1.34	7.37	6.61	10.61	9.08
	Midnapore	Bhuddruck	0.62	.....	0.18	0.95	0.30	0.03	.....	5	2.08	10.59	7.85	14.66	10.91
		Sorah	.....	0.70	.....	.....	.....	.....	0.22	2	0.92	10.47	5.93	14.77	9.09
		Balasore	0.57	.....	0.84	0.28	.....	0.03	.....	4	1.72	8.50	7.71	13.93	10.52
		Jellapore	4.50	0.80	1.15	0.70	0.05	.....	.....	5	7.00	11.86	6.92	17.60	8.63
		Baripodah	0.64	0.70	2.26	0.47	0.04	0.45	0.39	7	4.95	10.95	9.22	13.52	11.38
SOUTH-WEST BENGAL.	24-Pargunnahs	Contai	3.56	0.60	1.00	0.24	0.05	.....	.....	5	5.47	9.92	8.39	19.80	10.48
		Saugor Island	1.78	0.35	2.34	0.99	0.10	0.10	.....	6	5.66	9.53	8.80	15.11	11.25
		Tumlook	0.20	1.50	1.70	0.60	0.10	0.20	.....	6	4.30	12.60	8.37	21.60	10.76
		Midnapore	0.71	7.14	2.35	0.68	0.68	0.97	0.48	7	13.09	17.11	8.03	22.42	10.01
		Ghattal	0.52	8.62	2.46	0.18	0.26	0.12	0.36	7	7.42	11.43	9.43	15.72	11.16
	Howrah	Kukurahaty	0.52	0.93	1.13	0.46	0.23	0.09	.....	6	3.36	6.57	.....	11.52	.....
		Garbetta	1.82	1.08	1.85	0.22	0.38	1.36	.....	6	6.71	11.06	.....	14.45	.....
		Diamond Har- bour	0.36	1.34	1.42	0.18	0.34	0.06	.....	6	3.70	9.56	8.87	14.99	11.08
		Canning Town	0.26	2.36	1.32	0.76	2.54	.....	.....	5	7.24	12.64	.....	16.50	.....
		Alipore Jail	0.83	3.04	2.63	1.37	0.63	0.07	.....	6	7.97	13.89	9.57	18.08	13.00
SOUTH-WEST BENGAL.	Burdwan	Barrackpore	0.40	1.70	3.35	0.83	0.63	1.55	.....	6	7.86	11.72	9.39	16.20	11.60
		Dum-Dum	0.31	2.80	2.00	0.82	0.31	0.06	.....	6	6.30	12.06	9.17	16.12	11.02
		Baraset	1.29	1.88	3.14	0.49	0.40	0.06	.....	6	7.26	10.40	8.65	17.00	11.43
		Buseerhat	0.10	.....	3.25	1.01	2.50	0.08	.....	5	6.94	14.25	9.68	20.40	13.71
		Howrah	1.29	3.25	1.36	0.80	0.36	0.13	.....	6	7.19	12.86	9.06	15.87	11.27
	Hooghly	Moheareka (Ooloberiah.)	2.61	3.75	2.10	0.62	0.19	0.25	.....	6	9.52	23.35	8.26	28.91	10.84
		Serampore	0.72	1.66	3.40	0.75	0.06	1.54	.....	6	8.13	12.56	8.90	16.78	11.01
		Hooghly	0.54	3.47	3.95	2.68	0.09	0.13	.....	6	10.86	15.47	8.29	18.46	10.95
		Jehanabad	0.05	2.62	8.40	0.08	1.27	0.22	.....	6	12.04	15.19	8.31	20.24	11.07
		Culina	0.27	0.85	8.20	0.70	0.89	0.13	0.32	7	11.56	17.62	7.81	20.47	10.03
SOUTH-WEST BENGAL.	Bankoora	Burdwan	0.45	1.30	7.24	0.62	0.75	0.83	1.12	7	12.31	17.85	7.31	20.62	10.12
		Cutwa	5.00	4.62	0.55	1.15	0.45	1.51	0.95	7	14.23	20.67	9.42	23.74	12.25
		Raneegunge	0.30	2.25	8.05	2.65	0.07	0.17	.....	6	13.49	16.51	8.90	18.99	10.02
		Mankur	0.76	0.58	9.77	0.42	0.66	0.66	.....	6	12.85	16.21	.....	20.35	.....
		Bankoora	0.26	0.36	3.72	2.01	0.16	0.50	.....	6	7.01	11.32	8.77	16.13	11.02
	Beerbhoom	Bishenpore	1.23	1.36	4.00	0.94	0.82	0.47	.....	6	8.83	14.12	8.90	20.70	11.09
		Maliara	3.44	0.57	7.00	1.95	0.10	.....	.....	5	13.06	20.04	8.22	21.54	10.09
		Khatra	1.37	0.40	1.20	1.31	0.24	0.39	.....	6	4.81	7.22	10.15	10.74	12.25
		Indas	0.23	0.32	5.30	0.92	0.71	1.36	0.08	7	8.92	12.69	.....	15.42	.....
		Kotalpore	0.44	4.40	3.90	0.71	0.62	0.95	.....	6	11.02	16.59	.....	21.46	.....
SOUTH-WEST BENGAL.	Nuddea	Anda	2.50	2.40	0.40	1.55	0.52	.....	.....	5	7.57	11.21	.....	14.51	.....
		Gangajalghati	0.23	0.72	4.12	3.97	.....	.....	.....	4	9.04	19.61	.....	22.63	.....
		Raipore	0.83	1.19	1.69	0.72	0.79	0.42	.....	6	5.64	8.19	.....	14.62	.....
		Sonamukhi	0.21	0.31	6.07	1.79	0.52	.....	.....	5	8.90	12.07	.....	14.53	.....
		Bh. Scory	0.54	0.85	5.84	3.06	0.26	0.11	0.03	7	10.69	15.15	9.31	16.24	11.51
	Khoorna	Hetampore	0.04	6.80	2.35	0.19	0.80	0.04	.....	6	10.22	16.64	10.32	17.67	12.02
		Rampore Haut	1.10	2.55	3.25	1.74	0.91	.....	.....	5	9.55	15.85	8.93	18.31	10.94
		Botpore	1.21	1.02	6.31	1.08	0.75	0.04	.....	6	9.41	14.93	.....	17.69	.....
		Murari	0.30	1.05	0.15	1.10	.....	1.70	.....	5	4.30	8.76	.....	10.59	.....
		Ranaghat	0.04	2.41	4.43	1.27	0.44	0.07	.....	6	8.66	15.04	8.85	17.45	11.69
SOUTH-WEST BENGAL.	Jessor	Kishnaghat	0.02	0.97	8.17	1.06	0.69	0.11	0.39	7	11.41	14.21	8.30	19.38	11.00
		Choondanga	0.44	1.75	0.55	1.15	0.29	0.20	.....	6	4.58	8.98	8.96	12.55	13.48
		Meherpore	0.20	0.08	6.30	3.00	0.98	.....	.....	5	4.56	11.34	9.05	13.49	12.33
		Kooshtea	0.13	0.17	1.00	1.28	0.81	0.04	.....	6	2.93	9.29	10.35	14.97	14.50
		Satkhira	0.84	1.78	2.39	1.93	2.03	0.08	.....	6	9.00	13.30	11.37	21.30	15.15
	Moorshedabad	Bagirhat	0.55	4.50	1.42	4.30	3.10	2.15	.....	6	16.02	20.69	12.55	26.24	15.85
		Khoorna	0.76	2.88	2.52	2.05	2.09	0.16	.....	6	10.46	15.56	11.91	19.79	14.70
		Nakipore	0.13	1.02	2.07	2.92	2.61	.....	.....	5	8.75	14.81	.....	26.12	.....
		Rampal	0.59	1.84	1.39	3.56	2.67	.....	0.27	6	10.32	15.54	.....	21.05	.....
		Narail	0.11	1.22	2.90	3.85	0.51	0.01	.....	6	8.00	12.43	10.42	10.27	13.35
SOUTH-WEST BENGAL.	Chittagong	Jessore	0.43	4.10	0.92	0.96	0.10	0.05	0.06	7	15.62	19.52	11.78	21.55	15.26
		Jhenidah	0.59	0.80	2.68	0.85	0.82	.....	.....	5	5.74	10.54	11.93	12.26	15.48
		Magoorah	0.07	0.90	2.33	0.82	0.27	.....	0.02	6	4.21	11.29	10.97	15.62	15.09
		Bongong	0.25	0.63	4.50	0.95	0.15	.....	.....	5	6.48	10.52	9.48	15.12	12.49
		Kandi	.....	0.60	2.50	0.53	2.10	0.62	.....	5	6.35	11.37	8.28	13.09	11.17
	Backergunge	Berhampore	0.41	0.56	1.52	0.86	3.97	0.11	.....	6	7.43	10.10	8.80	10.61	11.93
		Lalbagh	0.26	0.95	1.43	0.75	2.39	0.04	.....	6	5.82	10.80	7.24	12.24	10.70
		Azimungo	0.21	1.35	1.19	2.30	1.75	.....	0.85	6	7.65	13.16	8.91	17.83	12.22
		Jungipore	.....	0.51	2.31	1.45	1.12	.....	0.64	5	6.03	10.94	8.20	11.47	11.31
		Lalgola	.....	.....	0.90	2.00	1.05	.....	.....	3	4.55	9.85	8.70	16.27	12.18
SOUTH-WEST BENGAL.	Chittagong	Jagunja	0.15	1.16	1.37	1.31	1.89	.....	0.90	6	6.78	11.90	.....	16.50	.....
		Akrigunj	0.45	0.24	1.14	1.67	2.85	0.05	0.11	7	6.51	11.79	.....	15.59	.....
		Patkabari	1.30	2.00	2.30	0.80	6.80	0.20	.....	6	7.40	12.50	.....	13.40	.....
		Cox's Bazar	3.40	3.48	4.24	9.35	0.72	1.22	1.35	7	23.76	32.76	30.50	39.09	35.98
		Chittagong	0.38	2.58	3.50	3.68	1.40	1.13	0.60	7	13.27	16.46</			

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 27th of June 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Number of rainy days.	of rainfall week.				
EAST BENGAL—contd.	Gournaddi	Bauphal ...	0.95	3.31	1.88	6.15	0.13	.....	.....	5	12.42	13.67	?	14.77	?
		Noakholly ...	0.14	0.84	0.69	3.85	1.32	0.11	.....	6	6.95	10.94	?	17.68	?
		Fenny ...	0.67	1.38	1.01	3.99	1.86	1.04	0.03	7	9.98	16.47	23.39	23.78	28.07
		Harishpore ...	0.15	0.84	0.78	5.15	3.75	1.10	1.25	7	13.02	21.90	27.27	30.01	32.10
	Furriedpore	Ramganj ...	1.10	2.15	3.15	.....	.....	.....	.....	7	.....	.....	.....	.....	.....
		Madaripore ...	0.26	0.24	0.27	2.90	3.15	0.22	.....	6	7.04	14.17	?	21.25	?
		Furriedpore ...	0.30	1.00	1.68	2.85	.....	.....	.....	4	5.83	7.05	12.06	11.92	16.32
		Goalundo ...	0.15	1.80	2.00	0.47	0.48	0.03	.....	6	4.03	10.02	11.32	12.29	16.33
	Dacca	Goalundo ...	0.08	.....	1.13	0.97	0.50	.....	.....	4	2.68	8.37	10.48	12.45	14.20
		Munshigunge ...	0.10	1.10	0.62	1.04	1.35	.....	2.20	6	6.41	10.80	14.80	31.23	10.08
		Dacca ...	0.12	0.35	1.09	1.70	.....	.....	0.18	6	5.84	10.94	12.22	10.83	10.45
		Narainigunge ...	0.09	0.54	0.48	1.46	1.46	.....	1.84	6	5.87	11.12	11.58	21.09	13.29
	Hill Tipperah	Manickgunge ...	0.22	0.18	2.77	2.08	1.30	0.15	1.47	7	8.12	15.39	9.31	21.23	13.32
		Joydebpore ...	0.02	0.20	0.31	3.82	1.69	0.10	0.31	7	5.85	14.16	?	23.29	?
		Agartala ...	.....	.....	1.27	3.35	1.12	0.73	0.55	5	6.82	10.06	13.67	23.34	13.03
		Comilla ...	0.19	0.93	0.12	1.33	1.38	0.95	2.31	7	7.21	13.80	18.02	20.21	22.54
	Tipperah	Chandpore ...	.....	1.12	1.42	2.06	1.63	.....	.....	4	7.13	15.39	15.26	21.48	18.61
		Brahmunberia ...	.....	.....	0.66	2.25	0.60	.....	.....	3	3.41	12.21	14.62	17.10	19.48
		Ramchandrapore ...	0.21	0.20	0.25	1.72	2.35	1.02	1.61	7	7.36	13.31	?	17.88	?
		Nasirnagar ...	.....	.....	0.10	0.50	.....	.....	0.55	3	1.15	9.68	?	16.82	?
	Mymensingh	Daudkandi ...	.....	0.01	1.04	.....	0.04	.....	.....	5	4.94	9.83	?	12.74	?
		Kasba ...	0.05	1.02	1.50	3.40	1.19	2.02	1.11	7	10.29	15.39	?	23.64	?
		Laksham ...	.....	.....	2.32	.....	8.35	.....	.....	2	10.07	16.40	?	23.46	?
		Kishoregunge ...	.....	0.21	.....	2.24	1.36	0.31	0.36	5	4.48	17.79	18.17	23.62	23.06
	Mymensingh	Atia (Tangail) ...	0.43	.....	2.60	1.95	0.41	.....	0.22	5	5.70	11.01	11.87	22.70	13.45
		Mymensingh ...	0.67	0.91	0.05	2.44	1.57	0.97	2.70	7	9.31	20.21	17.57	23.74	23.56
		Jamulpore ...	1.13	1.11	0.48	1.27	7.12	1.05	0.50	7	12.66	22.49	13.93	28.10	17.85
		Netrokona ...	0.76	0.23	0.12	3.70	0.40	0.10	2.40	7	7.71	24.54	18.96	30.71	23.10
	Mymensingh	Subornakhali ...	.....	.....	.....	2.57	3.47	0.03	0.38	4	0.45	9.19	?	15.74	?
		Durgapore ...	0.70	.....	.....	3.50	3.80	1.70	0.30	5	12.00	30.73	?	35.76	?
		Sherepore Town ...	.....	0.12	0.21	0.54	4.65	0.22	0.54	7	6.60	18.02	?	23.64	?
		Debangani ...	.....	.....	0.30	6.15	.....	3.20	0.05	4	9.70	17.39	?	26.53	?
	NORTH BENGAL.	Pubna ...	0.17	0.80	0.93	0.65	0.62	.....	0.20	6	3.37	11.28	10.12	14.79	13.78
		Seraikunge ...	0.19	0.13	0.90	2.43	1.46	.....	0.56	6	5.67	9.20	10.57	18.01	14.61
		Bogra ...	0.42	.....	0.30	1.54	7.09	1.18	0.45	6	11.07	15.95	11.55	19.74	16.03
		Nowkhilla ...	0.64	.....	0.30	0.27	3.27	0.90	0.38	6	5.76	11.97	12.65	17.86	15.85
	Bogra	Bogra ...	0.50	.....	0.24	0.78	4.18	0.08	2.15	6	7.73	13.22	13.53	17.29	18.30
		Panchbibi ...	0.27	0.59	0.14	2.66	4.10	0.80	0.50	7	8.67	23.37	11.15	26.13	15.76
		Rajshahye ...	1.01	0.13	0.13	2.87	6.07	.....	0.29	6	16.50	16.28	8.73	19.76	11.84
		Natore ...	0.75	0.10	0.33	2.70	7.03	0.02	2.34	7	13.86	21.25	9.29	28.05	12.86
	Maldah	Naogaon ...	.....	.....	0.37	4.91	1.89	0.19	0.76	5	8.32	14.98	11.21	18.81	15.05
		Lalpor ...	.....	0.46	1.87	1.16	0.09	.....	.....	4	3.68	8.39	?	11.39	?
Manda ...		.....	.....	1.50	2.30	0.50	0.30	.....	5	4.60	7.44	?	9.38	?	
Chandah ...		0.77	1.14	0.44	0.94	0.33	0.20	0.13	7	4.04	10.81	10.52	14.96	12.92	
Dinagore	Chanchal ...	0.11	0.30	0.32	0.13	1.83	0.10	.....	6	2.79	8.62	11.00	10.12	14.15	
	Gajol ...	0.38	0.15	0.55	0.24	0.70	.....	.....	5	2.02	11.22	?	13.27	?	
	Sibganj ...	0.33	0.16	1.25	0.78	0.91	0.04	0.14	7	3.61	12.25	?	17.39	?	
	Mohadebpore ...	0.26	0.40	1.43	3.70	1.99	0.61	.....	6	8.30	13.41	11.64	16.43	15.41	
Rungpore	Churamon ...	.....	0.16	0.90	0.19	2.73	0.13	.....	5	4.11	14.46	11.06	16.57	14.16	
	Raigunge ...	0.20	0.38	0.50	0.15	3.25	.....	0.26	6	4.74	14.07	13.62	16.81	17.38	
	Dinagore ...	0.17	0.73	0.11	0.65	0.98	0.14	.....	6	2.78	16.63	14.68	21.91	19.65	
	Raibhat ...	0.31	0.24	0.24	1.21	1.64	0.23	0.36	7	4.31	14.91	10.48	18.84	15.71	
Rungpore	Thakurgaon ...	0.89	.....	.....	1.40	4.69	2.28	2.23	5	11.40	28.14	?	30.10	?	
	Bhawanigunge (Gyabanda) ...	0.20	0.30	.....	0.20	5.50	1.30	1.04	6	8.54	23.68	15.06	28.25	20.51	
	Rungpore ...	0.73	0.13	.....	0.65	3.23	1.10	0.19	6	6.08	22.89	17.94	25.85	24.89	
	Kurigram ...	1.40	.....	0.20	2.56	3.64	0.93	0.40	6	8.23	30.91	22.15	34.50	30.66	
Jalpigore	Bardogra (Niphamari) ...	0.98	.....	0.96	2.30	0.85	.....	1.73	5	6.22	30.90	24.51	36.74	33.31	
	Ulupore ...	0.40	.....	.....	9.75	5.61	0.26	0.65	5	5.60	21.63	28.97	?	?	
	Jalpigore ...	.....	0.29	0.18	2.42	3.36	0.80	0.23	6	7.28	39.36	26.48	42.71	34.11	
	Alipore Doar ...	.....	0.16	0.59	2.41	2.19	0.05	1.41	6	6.80	47.36	?	50.72	?	
Cooch Behar	Falacotta ...	.....	0.12	0.39	0.43	1.85	0.16	2.19	6	5.14	41.46	?	43.59	?	
	Debiganj ...	0.35	.....	0.33	0.47	2.83	0.22	2.00	6	6.20	29.36	?	36.37	?	
	Bhagatpore (Nagrakatta) ...	.....	0.18	0.46	0.91	4.38	0.49	0.92	6	7.34	26.80	?	33.36	?	
	Dinhata ...	0.05	0.04	0.21	1.89	2.06	0.21	1.63	7	6.09	39.50	28.00	42.31	33.60	
Darjeeling Hill.	Cooch Behar ...	.....	0.09	0.30	4.10	0.44	.....	0.80	5	5.72	44.04	34.36	43.76	43.20	
	Mickilgunge ...	0.09	0.22	0.22	1.88	2.65	0.18	1.75	7	6.69	45.22	25.94	45.16	34.61	
	Matabhanga ...	0.02	0.24	2.58	2.47	0.13	0.35	4.17	7	9.96	45.94	39.01	47.86	38.85	
	Buxa ...	0.03	0.11	1.38	2.14	3.92	0.65	0.83	7	9.06	39.56	39.89	45.69	38.48	
North Bhagalpore.	Silikuri ...	0.06	1.28	0.10	1.00	3.99	0.73	0.26	7	7.17	29.78	24.37	36.40	30.40	
	Darjeeling ...	1.04	0.12	1.84	3.61	6.44	1.50	0.16	7	14.71	36.80	21.41	30.25	25.88	
	Kalimping ...	0.38	0.10	2.65	3.62	2.87	1.41	0.09	7	11.12	19.04	15.02	20.72	18.45	
	Kursong ...	0.30	0.03	2.90	1.55	7.50	1.46	2.20	7	10.00	32.63	?	39.73	?	
Purneah	Kissengunge ...	0.80	.....	0.48	0.65	1.20	1.41	1.35	6	5.89	21.68	14.37	22.02	18.47	
	Arrareah ...	0.30	.....	0.23	0.11	3.25	0.35	0.55	5	4.34	12.67	11.57	14.89	14.89	
	Purneah ...	0.10	0.52	0.54	0.14	2.85	0.10	0.16	7	4.41	13.14	10.55	21.06	13.56	
	Gondtara ...	0.33	0.32	.....	.....	.....	.....	.....	?	.....	.....	?	?	?
North Bhagalpore.	Balarampore ...	0.10	0.37	.....	0.90	2.60	.....	1.70	5	5.13	.....	?	13.83	?	
	Mattari ...	.....	0.40	2.20	0.30	5.00	0.30	.....	5	2.29	12.69	?	29.17	?	
	Kaliaganj ...	0.35	0.62	1.00	0.50	6.35	0.09	1.50	7	10.41	27.15	?	14.96	10.41	
	Maddapore ...	0.25	.....	2.49	0.40	0.60	.....	0.55	5	4.20	12.18	8.04	8.83	10.06	
Darbhunga	Scopool ...	0.21	.....	1.30	0.70	0.67	0.35	0.22	6	4.13	7.74	8.69	11.38	?	
	Protabganj ...	.....	3.20	.....	3.04	0.10	.....	0.75	4	7.15	16.79	?	8.40	7.74	
	Tajpore ...	0.58	2.02	0.22	0.02	2.56	1.02	.....	8	6.42	7.78	6.61	11.50	8.24	
	Durbhanga ...	0.28	0.19	0.35	0.59	1.54	0.02	0.02	7	4.50</					

Statement of Rainfall in Bengal for the week ending Friday (3 a.m.), the 27th of June 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 21st June.	Sunday, 22nd June.	Monday, 23rd June.	Tuesday, 24th June.	Wednesday, 25th June.	Thursday, 26th June.	Friday, 27th June.	Number of rainy days.	of Rainfall week.				
NORTH BEHAR—concluded.	Chumpran...	Motihari ...	0'11	0'29	.....	0'24	4'57	1'24	0'00	6	6'54	10'33	6'56	17'32	8'01
		Bettiah ...	0'12	.....	.....	0'32	4'00	1'29	.....	4	5'73	11'37	6'52	12'30	8'06
		Bagaha ...	0'23	.....	0'28	0'14	1'31	1'45	2'75	6	6'15	14'40	?	15'07	?
SOUTH BEHAR	Sarun ...	Burhura ...	0'34	0'17	.....	0'41	2'30	2'00	0'03	6	5'25	9'40	?	10'28	?
		Gopalgunge ...	0'20	.....	.....	0'70	3'60	0'70	0'20	5	5'40	7'40	4'58	8'90	6'12
		Sowah ...	0'05	.....	2'12	1'51	2'91	0'22	0'22	5	6'81	12'03	6'03	13'56	7'19
	Shahabad ...	Chuprah ...	0'07	0'18	1'90	3'57	1'57	.....	0'21	6	7'50	9'73	5'58	11'72	6'56
		Buxar ...	1'00	0'18	0'91	0'43	1'50	0'35	0'09	7	5'11	6'02	4'21	8'19	4'88
		Dehree ...	1'56	0'02	2'93	0'95	0'07	0'08	1'17	7	6'78	9'53	2'90	9'53	4'16
		Bhabooh ...	0'40	.....	0'70	0'70	1'10	0'10	0'10	6	3'10	7'78	4'48	7'78	5'07
		Sasseram ...	1'00	0'10	2'30	0'30	0'29	.....	0'10	6	4'47	9'15	4'20	9'44	4'90
		Arrah ...	1'95	0'07	1'80	2'62	1'95	1'85	.....	6	10'24	10'69	5'20	12'13	6'37
		Mohaniah ...	.....	1'30	.....	.....	.....	.....	.....	6	10'24	10'69	5'20	12'13	6'37
	Gya ...	Aurangabad ...	0'25	2'47	3'23	1'05	0'05	0'43	.....	6	7'48	9'17	5'00	9'51	6'30
		Gya ...	0'05	0'04	3'08	3'04	1'26	0'01	.....	6	9'29	11'10	5'39	11'11	6'89
		Nowdah ...	0'06	0'39	5'15	6'65	1'35	1'23	0'97	7	10'71	14'45	4'77	15'48	6'24
		Johanabad ...	3'10	0'13	0'03	5'19	4'03	0'37	.....	6	13'43	14'69	4'77	16'05	6'07
		Arwal ...	0'30	3'30	.....	.....	.....	.....	3'50	3	7'10	9'24	?	10'13	?
		Daudnagar ...	0'09	0'40	0'50	.....	0'30	.....	.....	4	2'19	3'54	?	3'81	?
		Sherrghati ...	.....	0'50	1'50	1'50	0'50	.....	.....	4	4'06	6'18	?	6'18	?
	Patna ...	Rajauli ...	1'09	0'30	2'36	4'35	1'45	0'13	0'55	7	10'23	11'92	?	11'92	?
		Pakri Barawan ...	.....	2'40	1'00	5'10	2'35	1'30	0'55	6	13'00	16'33	?	16'08	?
		Patna ...	0'14	0'06	1'62	0'59	2'26	0'89	0'05	7	5'52	6'62	6'13	8'09	7'74
	Monghyr ...	Dinapore ...	0'55	0'05	0'72	2'76	0'35	0'84	0'45	7	5'72	6'74	5'74	8'08	6'98
		Rehat ...	0'80	0'77	0'06	5'89	1'22	.....	0'07	6	8'72	11'15	5'77	12'22	7'23
		Barh ...	0'60	.....	0'30	3'00	0'80	.....	0'19	5	5'09	6'75	4'33	7'45	5'77
		Bickram ...	2'50	1'08	0'94	3'30	1'70	0'82	.....	6	10'34	12'19	?	13'27	?
		Hilsa ...	.....	0'13	3'10	5'17	1'16	0'70	0'20	6	10'46	11'86	?	14'11	?
	South Bhagulpore	Begooeserai ...	0'92	0'36	0'31	0'10	3'00	0'45	.....	6	5'14	7'34	5'95	8'77	7'42
		Monchyr ...	1'00	4'42	1'92	0'18	0'55	1'68	0'02	7	10'37	13'57	5'64	16'47	7'33
		Jamul ...	0'54	0'79	1'48	2'47	2'61	1'00	0'65	7	10'14	17'05	5'70	18'25	7'10
		Gopri ...	1'60	.....	2'84	.....	3'52	.....	.....	3	7'76	12'30	?	14'24	?
		Sheikpura ...	1'90	.....	0'65	2'55	3'00	0'74	0'20	6	9'04	12'97	?	13'27	?
	Sonthal Pergunnahs.	Bhagulpore ...	0'83	0'04	1'59	0'12	1'14	2'89	0'14	7	6'75	10'33	6'67	12'08	8'31
		Banks ...	1'09	0'10	0'87	1'05	1'06	1'29	.....	6	5'48	7'93	6'32	11'21	8'39
		Kolgong ...	0'76	0'74	2'75	0'31	2'40	0'90	.....	6	7'86	11'04	?	13'05	?
		Bangaon ...	.....	1'80	1'56	0'34	.....	0'60	0'94	5	5'24	8'42	?	9'92	?
		Rajmehal ...	0'58	0'06	0'38	0'82	0'98	0'57	0'15	7	3'54	10'56	9'21	12'66	12'14
CENTRAL NAGPUR.	Hazaribagh ...	Godda ...	1'30	0'35	1'25	1'20	1'05	.....	0'64	6	5'79	9'46	5'81	12'01	8'22
		Pakour ...	0'23	0'09	2'47	1'85	1'09	0'78	2'78	7	9'34	17'63	9'72	20'76	12'76
		Nya Duomka ...	1'07	0'07	3'25	6'11	0'40	0'12	0'14	7	11'16	14'21	8'01	16'16	10'27
		Deoghur ...	0'40	1'09	0'81	3'95	0'81	.....	0'60	6	7'66	9'04	7'32	10'95	9'24
		Jamtara ...	0'62	1'38	8'59	8'05	0'12	.....	.....	5	18'76	20'11	7'62	22'00	9'60
		Mohagama ...	2'25	1'85	1'38	.....	2'55	.....	0'24	5	8'27	12'79	?	13'56	?
		Nanhat ...	0'75	0'20	1'07	1'25	0'12	.....	0'76	6	4'15	6'38	?	6'97	?
		Pachamba (Girdi) ...	0'92	0'06	3'13	6'52	1'36	.....	0'30	6	12'30	16'56	7'50	18'24	9'07
		Hazaribagh ...	0'61	0'03	1'21	2'09	0'82	.....	0'08	6	5'44	7'63	6'32	8'40	7'85
		Semtasurah ...	0'05	0'70	1'92	1'40	.....	.....	0'55	5	4'62	7'03	6'63	6'62	8'12
	Lohardugga ...	Mahudi Hills ...	0'80	0'80	2'50	2'00	.....	.....	0'60	5	6'70	12'50	6'16	12'50	9'30
		Barh ...	0'53	0'78	.....	2'80	0'47	.....	.....	4	4'86	7'13	?	7'67	?
		Chatra ...	.....	0'80	2'50	0'80	.....	.....	0'35	4	4'45	6'45	?	7'25	?
		Karagdeha ...	0'70	0'79	1'13	8'59	1'05	0'39	0'09	7	12'74	13'17	?	17'19	?
		Ramghar ...	.....	.....	0'07	2'02	.....	.....	.....	2	2'09	7'44	?	10'09	?
		Lohardugga ...	1'00	1'40	0'20	1'09	0'75	.....	0'30	6	4'65	8'12	6'03	8'33	9'07
		Ranchi ...	0'64	0'37	0'09	2'11	0'36	0'06	.....	6	3'63	7'16	7'74	9'53	9'74
		Palamow ...	0'65	1'65	0'95	0'87	0'02	.....	.....	5	4'14	6'45	5'07	7'93	6'12
	Singbhoom ...	Silli ...	.....	0'20	1'00	1'40	.....	.....	.....	3	3'30	6'30	?	9'50	?
		Balumat ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
		Josseinabad ...	0'83	.....	2'21	0'30	.....	.....	.....	3	3'34	5'92	?	5'92	?
		Garwah ...	.....	0'22	.....	.....	0'02	.....	.....	.....	.....	.....	?	?	?
		Chyebassa ...	0'72	0'03	0'37	2'20	0'11	0'08	.....	6	3'61	6'46	7'04	9'55	10'21
	Manbhoom ...	Chakradhar-pore ...	0'20	0'10	0'50	0'40	0'30	0'20	0'10	7	1'80	3'40	?	3'55	?
		Ghatilla ...	0'19	0'15	0'78	0'85	.....	0'07	.....	5	2'04	8'20	?	11'37	?
		Baharagura ...	0'36	0'40	0'80	.....	.....	.....	.....	.....	.....	.....	?	?	?
	Singbhoom ...	Purulia ...	0'54	1'00	1'89	4'17	0'15	0'18	.....	6	8'33	11'93	7'77	14'55	9'84
		Gobindpore ...	0'47	0'53	4'07	5'57	0'05	.....	.....	5	10'09	11'66	6'82	12'03	8'07
		Raghunath-pore ...	1'26	0'20	5'11	5'41	.....	0'49	.....	5	12'47	13'68	?	15'77	?
		Barrabhoom ...	0'50	0'20	1'01	1'00	0'30	0'03	.....	6	3'64	6'62	?	10'85	?
	Singbhoom ...	Shalda ...	0'62	0'58	3'09	.....	.....	.....	.....	3	4'80	8'90	?	10'56	?
		Ghas ...	1'72	0'50	2'35	5'15	0'15	.....	.....	5	10'07	12'70	?	13'98	?

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall column are left blank.

CALCUTTA, the 1st July 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
27TH OF JUNE 1890.**

TOWARDS the end of last week the unsettled conditions resulting from the depression which had formed off the Orissa coast and thence moved in a north-north-westerly direction, had almost entirely disappeared, and at the beginning of the present week a very shallow low-pressure area remained in Lower Bengal. This depression gradually developed at first with an easterly motion, but afterwards it moved to the north-west, exerting an important influence on the weather conditions and rainfall distribution over Bengal up to the last two days of the week. Unusually heavy rainfall and very low temperature have been recorded in all districts except Orissa, where temperature has been very low, but rainfall has also been below the normal.

On the 21st pressure was less than a twentieth of an inch below the normal over almost the whole province, while at Jessore, Dacca, and Burisal defect was slightly over that amount. This very shallow depression appears to be the commencement of the disturbed conditions, for on the 22nd a rapid fall was general in the eastern districts, the area of lowest pressure extending from the head of the Bay to Mymensingh and as far east as Silchar. The depression was therefore well to the east on Sunday, and over the greater part of Bengal winds were cyclonic. Heavy rain had begun to fall, Midnapore reporting eight inches, and all the southern stations from Calcutta eastwards from two to four inches. On the following day the depression had moved very nearly due west, the centre of lowest pressure and of the cyclonic circulation being between Berhampore and Burdwan. A very perfect cyclonic circulation obtained, with strong winds at the head of the Bay and in Lower Bengal. Rainfall was heavier than on the 22nd at all stations to the south of the centre, Jessore and Akyab reporting ten inches, Raneeunge and Krishnagore eight inches, Burdwan seven inches, and several other stations from three to six inches. Wind velocity at Saugor Island and Gopalpur averaged more than 30 miles for the twenty-four hours previous to 8 a. m. on the 23rd, at which hour it was 36 miles at Saugor Island and 40 miles at Pooree. Up till 8 a. m. on the 24th the stormy weather intensified, the depression moving in a north-westerly direction, but it would appear that it broke up, one portion being near Allahabad, and the other near Purneah and Bhagulpore when observations were taken on the 24th. Pressure at Purneah was 29·344 inches and at Bhagulpore 29·349 inches, defect at these two stations exceeding a quarter of an inch, while gradients were steep over the province and the Bay, the difference between Purneah and Tavoy exceeding six-tenths of an inch. The average wind velocity at Saugor Island rose to 42 miles an hour, and strong winds were blowing over the northern half of the Bay and at all inland stations except those in the extreme north. Falls of three and four inches of rain were common on this day in the west and south, but in North Behar and the greater part of North Bengal comparatively small amounts were reported. A very rapid rise followed, and by the 25th the depression near Purneah had completely filled up, excess pressure being general in all districts except the west of Behar. Heavy rain continued to fall till the 24th, and for the last two days ordinary monsoon conditions prevailed over the whole province, cloudy skies with moderate wind and light rain being reported from all except the Orissa stations.

Pressure.—Changes have been roughly given above for those stations near which the area of lowest pressure passed. As the depression advanced, the fall of pressure was very rapid, but it recovered much more rapidly after the passage of the centre. Defect near the centre was about a quarter of an inch, and pressure changes at those stations varied from ·15 inch to ·33 inch, the latter occurring at Purneah on the 26th. As the distribution was below the normal during five days out of the seven, the means are below the normal in all districts except Orissa.

Temperature.—Has been largely below the normal, the defect in the means for the week in the large divisions being—Chutia Nagpur 4·6°, South Behar 3·9°, South-West Bengal 3·2°, East Bengal and North Behar slightly over 2°, Orissa 2°, and North Bengal 0·5°. The area, therefore, over which the lowest temperatures have been recorded include the western districts from South Behar to Orissa.

Rainfall.—Unusually heavy rain fell during the early part of the week in all districts except Orissa, the average amounts in South-West Bengal, South Behar, and Chutia Nagpur being three times the normal, in North Behar and East Bengal twice the normal, and in North Bengal 1·5 inches in excess. Expressed as percentages of the normal for each district we get—South Behar 332, South-West Bengal 330, Chutia Nagpur 280, East Bengal 203, North Behar 192, North Bengal 128, and Orissa 74. The falls in South-West Bengal were generally over 6 inches, except in the Midnapore and Nuddea districts, and over 10 inches in Burdwan and parts of Khacolna and Jessore, the heaviest falls being 15·6 inches at Jessore and 16 inches at Bagirhat. In East Bengal the heaviest were 23 inches at Cox's Bazar and 13 inches at Chittagong and Fenny, but falls were generally between 5 and 8 inches. The lightest falls in North Bengal were 2 to 4 inches in Maldah and Dinagepore, but in the other districts 6 to 7 inches were very frequently reported. In Behar the same uniform distribution prevailed, and in Chutia Nagpur from 4 to 6 inches fell except in part of Manbhoom and Hazaribagh, where a few stations reported over 10 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 27th of June 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93.4	75.7	87.2	79.4	83.3	-2.0	1.81	2.45	-0.64	4.3	3.3	+1.0	9.01	7.22	12.20	9.39
South-West Bengal ...	93.3	72.2	87.0	77.6	82.4	-3.2	8.36	2.53	+5.83	6.0	4.0	+2.0	13.55	9.23	17.66	11.99
East Bengal	89.6	72.5	84.3	76.4	80.5	-2.1	8.55	4.21	+4.34	6.0	9	+1.1	15.63	16.70	22.20	21.13
North Bengal	92.5	71.1	87.6	76.9	82.2	-0.5	6.82	5.30	+1.52	6.2	4.7	+1.5	21.97	16.26	26.01	21.71
North Bihar	92.7	74.4	88.0	77.4	82.7	-2.3	5.29	2.75	+2.54	5.0	3.4	+2.5	10.79	7.78	12.82	9.63
South Bihar	95.3	73.3	87.5	77.5	82.5	-3.9	7.99	2.35	+5.65	6.4	3.3	+3.1	10.96	5.88	12.50	7.47
Chutia Nagpur	86.5*	70.2*	81.2*	72.3*	76.6*	-4.6*	6.26	2.51	+3.75	5.6	4.0	+1.6	8.89	6.98	10.12	8.70

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 1st July 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 22nd to 28th June 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
June 1890...	22nd ...	29.531	79.0	81.0	4.1	76.9	77.6	77.0	.921	76.7	98	4.00
" " ...	23rd ...	.450	80.2	84.0	7.7	76.3	80.6	78.5	.949	77.6	91	1.45
" " ...	24th ...	.568	82.6	88.0	10.8	77.2	85.6	79.5	.968	78.3	87	1.25
" " ...	25th ...	.700	83.4	89.0	11.2	77.8	81.6	80.5	1.028	80.1	95	0.60
" " ...	26th ...	.666	84.3	92.5	16.5	76.0	89.4	84.5	1.120	82.7	81	0.08
" " ...	27th ...	.590	86.4	93.0	13.2	79.8	89.6	82.9	1.035	80.3	74	...
" " ...	28th ...	.586	85.8	91.5	11.5	80.0	88.6	83.5	1.080	81.6	80	...

The mean 10 A.M. pressure of the seven days Inches.
29.584

The mean temperature of the seven days 83.1

The extreme variation of temperature 17.0

The maximum temperature 93.0

The mean 10 A.M. relative humidity of the seven days %
87

The total fall of rain from 22nd to 28th June 1890 Inches.
7.38

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 30th June 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from
22nd to 28th June 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	22nd	86.7	Nil	29.492	79.5	80.5	4.3	76.2	77.8	0.931	77.1	92	SW and WSW	248	4.28	Cloudy, o, g, d, p. ☉, <.
"	23rd	117.2	Nil	.412	80.5	83.4	7.3	76.1	78.1	.932	77.1	90	SW	345	1.36	Cloudy, o, g, d, p. ☉.
"	24th	144.6	0.5	.534	82.8	86.7	10.4	76.3	79.7	.974	78.4	87	SW and SSW	338	0.26	Chiefly cloudy, o, g, d, p.
"	25th	121.5	Nil	.657	82.0	85.7	7.7	78.0	79.3	.967	78.2	88	SSW and variable	106	0.37	Chiefly cloudy, o, g, d, p.
"	26th	151.8	7.7	.613	85.0	90.5	15.2	75.3	81.4	1.027	80.0	86	SSW	121	Nil	Partially cloudy, ⊕.
"	27th	147.7	2.3	.540	85.6	90.2	10.5	79.7	81.4	1.021	79.9	83	SW by S and SW	80	"	Chiefly cloudy, o.
"	28th	156.3	6.6	.530	84.1	89.8	10.6	79.2	79.5	0.948	77.6	81	SE, calm and variable.	60	"	Partially cloudy.

The mean pressure of the seven days 29.540
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.519

The total number of hours of bright sunshine 17.1
The maximum possible number of hours of sunshine 94.3
o

The mean temperature of the seven days 82.8
The average temperature of the corresponding period for 24 years, S.-G.'s Office 84.5
The extreme variation of temperature 15.2
The maximum temperature 90.5

The highest velocity of the wind in one hour 24
lbs.

The highest pressure of wind on one square foot Approximately 6
%
The mean relative humidity 87

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 84

The total fall of rain from 22nd to 28th June 1890 6.27
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 2.48
The total fall from 1st January to 28th June 1890 20.71
The average fall of the corresponding period for 24 years, S.-G.'s Office ... 20.46

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, ☉ continued rain, ⊕ solar corona, < lightning, / strong wind.

N.B.—In the weekly report from 8th to 14th June 1890 read 29.605 for 29.65 as the mean of pressure of the 13th June 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
Calcutta, the 30th June 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 14th June 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 14th June 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 13.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 5.2 lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	25.2	16.0	17.9	18.3	18.2	19.1	13.9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.		24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.
Burdwan	16.8	9.1	21.4	32.0	Narainganj	20.7	16.6	24.8	12.4
Midnapore	15.5	18.6	18.6	13.9	Chittagong	7.0	16.4	11.7	9.4
Hughli and Chinsurah	21.3	37.7	26.3	19.7	Comillah	11.6	23.1	15.4	38.5
Serampore	21.6	21.6	23.0	23.6	Patna	9.4	8.6	6.2	7.5
Utterpara	9.4	18.9	...	18.9	Gya	24.6	19.1	19.8	16.4
Howrah	13.2	14.3	18.9	10.9	Arrah	9.6	27.5	13.2	8.4
Bali	14.0	14.0	7.0	10.5	Mozufferpore	9.7	15.8	10.9	7.3
Kishnagar	3.8	7.6	15.1	15.1	Durbhanga	24.4	18.1	11.0	20.5
Ranaghat	24.0	6.0	6.0	12.0	Chupra	10.1	11.1	9.1	4.0
Santipore	17.5	14.0	19.5	17.5	Bhagalpore	13.6	23.5	10.9	12.7
Jessore	18.4	6.1	...	6.1	Monghyr	17.2	19.9	17.2	20.8
Rampore Beaulah	23.6	21.0	23.6	31.5	Purneah	20.8	3.5	17.3	13.9
Darjiling	14.8	7.4	22.2	...	Poori	8.4	14.7	18.9	21.0
Dacca	11.6	11.0	10.4	9.1					

It will be seen that last week the highest birth-rate was returned from Comillah (38.5) and the lowest from Chupra (4.0). No births were registered during the week in Darjiling town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23.3 per 1,000 of the population. The rate of the week is 1.2 lower than the average rate of the corresponding week of the past five years, and is higher than the rate of the corresponding week of any of the past five years except 1885 and 1886, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	33.0	23.2	20.9	21.4	23.4	24.2	23.0

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.		24th May 1890.	31st May 1890.	7th June 1890.	14th June 1890.
Burdwan	22.9	25.9	16.8	10.8	Narainganj	41.4	8.3	24.8	24.8
Midnapore	17.9	29.4	29.1	15.5	Chittagong	7.0	11.7	30.6	11.7
Hughli and Chinsurah	27.9	27.9	32.8	29.5	Comillah	11.6	30.8	30.8	34.7
Serampore	27.6	29.4	15.7	23.6	Patna City	21.1	15.6	21.4	17.5
Utterpara	28.3	9.4	47.2	15.9	Gya	27.3	32.1	42.4	27.3
Howrah	16.6	13.2	12.6	20.6	Arrah	18.2	32.3	21.5	13.3
Bali	7.0	21.1	10.5	13.0	Mozufferpore	23.1	33.9	26.8	28.0
Kishnagar	13.2	11.4	9.5	9.5	Durbhanga	37.7	33.0	28.7	33.0
Ranaghat	18.0	12.0	12.0	6.0	Chupra	4.0	15.1	11.1	12.1
Santipore	26.3	5.2	8.8	14.0	Bhagalpore	13.6	20.3	22.6	24.4
Jessore	...	6.1	49.0	12.2	Monghyr	23.5	19.9	26.2	18.1
Rampore Beaulah	23.6	26.3	23.6	23.6	Purneah	17.3	10.4	27.7	3.5
Darjiling	44.5	14.8	59.3	14.8	Poori	35.6	62.9	142.7	123.9
Dacca	26.6	16.2	30.5	24.0					

It will be seen that last week the highest mortality occurred in the town of Poori (125·9) and the lowest in Purneah (3·5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follow:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Poori	... 31·5	Poori	... 65·0	Poori	... 21·0
Durbhanga	... 13·3	Comillah	... 27·0	Gya	... 13·6
Mozufferpore	... 10·9			Burdwan	... 12·2
Patna City	... 5·5			Bhagulpore	... 10·8
Howrah	... 2·3				

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3·5 per 1,000 from cholera, against the same ratio in the preceding week; 8·9 from fever, against 13·0; 3·0 from bowel-complaints, against 2·3; ·7 from injury, against ·5; 6·0 from other causes, against 6·3 in the preceding week, and ·8 from small-pox, against ·5. The mortality from small-pox is noticeably severe in Patna City, there being 7 deaths (2·3 per 1,000 of the population).

The mortality of last week according to *Sex*, *Class* and *Age* was as follow:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 23·6	Christians	... 29·9	Under 1 year	... 135·2
Females	... 22·3	Hindus	... 23·6	1 and under 5 years	... 32·5
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	... 105	Mahomedans	... 21·4	5 " 10 "	... 10·8
				10 " 15 "	... 5·9
				15 " 20 "	... 16·7
				20 " 30 "	... 14·5
				30 " 40 "	... 21·4
				40 " 50 "	... 18·7
				50 " 60 "	... 21·6
				60 years and upwards	... 60·9

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 30th June 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 14th June 1890.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.						MORTALITY ACCORDING TO—																				
		Males.	Females.	Total.	NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	Disease.								Ratio of deaths per 1,000 of population per annum in the previous week.	Sex.												
					Males.	Females.	Total.			DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.					Deaths.	RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.							
										Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.		Small-pox.	Fever.		Bowel-complaints.	Injury.		Other diseases.	All causes.	Males.	Females.	Males.	Females.	
Burdwan ...	Burdwan ...	18,063	16,017	34,080	11	10	21	16.8	15.2	32.0	110	...	1	3	1	...	8	13	...	1.5	4.6	1.5	...	12.2	19.8	16.8	10	3	23.8	9.7	297
Midnapore ...	Midnapore ...	16,927	16,633	33,560	4	5	9	6.2	7.7	13.9	80	1	...	4	1	...	4	10	1.5	...	6.2	1.5	...	6.2	15.5	20.1	8	2	24.6	6.3	390
Hughli ...	Hughli and Chinsurah.	15,558	15,829	31,687	5	7	12	8.2	11.5	19.7	71	...	1	10	1	...	6	18	...	1.6	16.4	1.6	...	9.8	29.5	32.8	12	6	39.4	19.7	200
Serampore ...	Serampore ...	13,559	12,937	26,496	6	6	12	11.8	11.8	23.6	100	...	...	5	2	...	5	12	...	...	9.8	3.9	...	9.8	23.6	13.7	8	4	30.7	16.1	191
	Utterpara ...	3,946	2,464	5,510	1	1	2	9.4	9.4	18.9	100	...	...	1	...	...	1	2	...	...	9.4	...	...	9.4	18.9	47.2	1	1	17.1	21.1	81
Howrah ...	Howrah ...	53,153	37,660	90,813	14	5	19	8.0	2.9	10.9	280	4	3	11	9	...	9	36	2.3	1.7	6.3	5.1	...	5.1	20.6	12.6	21	15	20.5	20.7	99
	Bali ...	7,836	6,979	14,815	1	2	3	3.5	7.0	10.5	50	...	...	3	1	...	...	4	...	...	10.5	3.5	...	...	14.0	10.5	3	1	19.9	7.5	205
Nuddes ...	Kishnagar ...	18,263	14,214	27,477	5	3	8	9.5	5.6	15.1	166	...	...	3	...	1	1	5	...	...	5.6	...	1.9	1.9	9.5	9.5	4	1	15.7	3.7	424
	Ranaghat ...	4,028	4,655	8,683	1	1	2	6.0	6.0	12.0	100	...	...	...	1	...	...	1	...	...	...	...	...	...	6.0	12.0	1	...	12.9	...	No female death.
	Santipore ...	13,708	15,979	29,687	8	2	10	14.0	3.5	17.5	400	...	1	1	3	3	...	8	...	1.7	1.7	5.3	5.3	...	14.0	8.8	6	2	22.8	6.5	351
Jessore ...	Jessore ...	4,830	3,665	8,495	...	1	1	...	6.1	6.1	No male birth.	...	...	2	...	...	...	2	...	...	12.2	...	...	...	12.2	49.0	1	1	10.8	14.2	76
Rajshahiye ...	Rampore Beaulah	10,766	9,025	19,791	5	7	12	13.1	18.4	31.5	71	...	...	7	...	...	2	9	...	...	18.4	...	...	5.3	23.6	23.6	5	4	24.2	23.0	105
Darjiling ...	Darjiling ...	4,579	2,459	7,038	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...	...	14.8	...	...	...	14.8	59.3	1	1	11.4	21.3	53
Dacca ...	Dacca ...	42,782	37,379	80,161	5	9	14	3.2	5.8	9.1	53	2	...	15	6	2	13	37	1.3	...	9.7	3.9	1.3	7.8	24.0	30.5	23	14	28.9	19.5	143
	Naraingarj ...	7,605	4,956	12,561	1	2	3	4.1	8.3	12.4	50	...	...	1	1	2	2	6	...	...	4.1	4.1	8.3	8.3	24.8	24.8	2	4	13.7	42.0	32
Chittagong ...	Chittagong ...	13,340	8,790	22,130	3	1	4	7.0	2.3	9.4	300	...	...	3	...	...	2	5	...	...	7.0	...	...	4.7	11.7	39.5	3	2	11.7	11.8	96
Tipperah ...	Comillah ...	8,153	5,353	13,506	5	5	10	19.2	19.2	38.5	160	...	...	7	...	1	1	9	...	...	27.0	...	3.8	3.8	34.7	30.9	4	5	25.5	48.6	52
Patna ...	Patna City ...	78,762	81,475	160,237	14	9	23	4.5	2.9	7.5	155	17	7	13	6	1	10	54	5.5	2.3	4.2	1.9	3	3.2	17.5	21.4	28	26	18.5	16.6	111
Gya ...	Gya ...	38,290	37,831	76,121	11	13	24	7.5	8.9	16.4	84	2	...	17	...	1	20	40	1.4	...	11.6	...	7	13.6	27.3	42.4	19	21	25.8	28.9	89
Shahabad ...	Arrah ...	20,960	22,505	43,465	3	4	7	3.6	4.8	8.4	75	1	1	6	2	1	...	11	1.2	1.2	7.2	2.4	1.2	...	13.2	21.5	5	6	12.4	13.9	89
Mozufferpore..	Mozufferpore	23,084	19,658	42,742	2	4	6	2.4	4.9	7.3	50	9	...	1	7	1	5	23	10.9	...	1.2	8.5	1.2	6.1	28.0	26.8	10	13	22.5	34.4	65
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	12	14	26	9.4	11.0	20.5	85	17	...	16	7	...	2	42	13.3	...	12.6	5.5	...	1.6	33.0	26.7	20	22	30.8	35.4	87
Sarun ...	Chupra ...	25,116	26,554	51,670	3	1	4	3.0	1.0	4.0	300	...	2	2	3	1	4	12	...	2.0	2.0	3.0	1.0	4.0	12.1	11.1	9	3	18.6	5.9	315
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	9	5	14	8.1	4.5	12.7	180	3	...	12	...	...	12	27	2.7	...	10.8	...	...	10.8	24.4	22.6	16	11	25.1	20.6	133
Monghyr ...	Monghyr ...	28,154	29,366	57,520	13	9	23	12.7	8.1	20.8	155	...	...	5	8	...	7	20	...	...	4.5	7.2	...	6.3	18.1	26.2	11	9	20.3	15.9	127
Purneah ...	Purneah ...	8,463	6,553	15,016	2	2	4	6.9	6.9	13.9	100	...	...	1	...	...	...	1	...	...	3.5	...	...	...	3.5	27.7	1	...	6.1	...	No female death.
Poori ...	Poori ...	13,247	11,537	24,784	4	6	10	8.4	12.6	21.0	66	15	1	31	2	1	10	60	31.5	2.1	65.0	4.2	2.1	21.0	125.9	142.7	18	42	70.7	100.4	41
Total ...		550,996	510,538	1,061,534	149	134	283	7.3	6.6	13.9	111	71	17	182	61	15	123	469	3.5	.8	8.9	3.0	.7	6.0	23.0	26.2	250	219	23.6	22.3	105

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.
IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.
Areas leased for irrigation up to the end of April 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.		
								Five years, all crops.	Five years, kharif.	Annual leases.					GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.			
										Kharif.	Rabi.	Sugarcane.	Bhadol.	Hot-weather.							Total.	
ORISSA	Cuttack	Taldunda, 1st reach	C. ft. 1,342	C. ft. 71	C. ft. 39	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.		
		Ditto, 2nd "	500							10,011						10,011		0'15	0'15			
		Machgong	776	28	28				22,264							22,264		0'10	0'10			
		Kendrapara	1,067	367'71	200'26	94	93		48,450							48,450		0'08	0'08			
		Gobri	372'82	19'09	11'82	21	2		2,287							2,287		0'72	0'72			
		Do. extension	648	17'30	17'30				2,147							2,147	No gauge fixed.					
	Balasore	Patamondi	885	80'45	63'15		5		10,209							10,209						
		High Level, Range I	608	97'12	14'40	279	269		25,023							25,023	0'00	0'00	1'70	1'70		
		Ditto, ditto II	727'16						2,302		20					20						
		Ditto, ditto III	727'16			127	89		34,400			127				127	34,527	0'45	0'45	0'30	0'30	
Total					521	438		157,183		20	127			147	157,330							
Total of the corresponding period of last year									134,041		2,008	130			3,008	137,169						
SOUTH-WESTERN.	Midnapore	Midnapore	1,411	40					62,504							62,504	0'51	0'51	1'00	1'00	13 Days discharging. 10 Days discharging.	
		Panchkoora	522	9					3,318							3,318			0'93	0'93		
		Tidal reaches, Ranges I-II							886							886						
	Total								66,208							66,208						
	Total of the corresponding period of last year									50,996							50,996					
SONNE	Shahabad	Western Main	4,342	1,228	9	521	191	11,565			201		308	509	12,074	0'01	0'01					
		Buxar	1,226	194	93	2,005	3,491	51,052				984		1,960	2,944			53,996				
		Arrah	2,000	774	393	15,839	17,903	89,065				2,109		5,136	7,245			97,210				
		Eastern main				8	13	1,132				8			8			1,140				
		Patna	1,406	182	170	477	296	56,976				390			390			37,366				
Total					18,940	21,894	194,690				3,692		7,404	11,096	201,786							
Total of the corresponding period of last year									154,831			3,960		10,020	13,980	168,820						
Grand Total					19,461	22,352	190,690	223,301		20	3,819		7,404	11,243	425,328							
Grand Total of the corresponding period of last year								154,831	185,037		2,938	4,000		10,020	17,037	357,025						

Calcutta,
The 1st July 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of April 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES.
 MACHGONG „ 4 „

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
49	1. Grain ...	104	478	582	582	21,808	
...	2. Cotton ...	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....
...	5. Piece-goods ...	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....
74	7. Building materials ...	.....	1,143	1,143	525	677	
5	8. Miscellaneous ...	20	9	29	29	1,590	
3	9. Fuel ...	.....	25	25	25	105	
31 rafts	10. Timber ...	.....	374 No.	374 No.	374 No.	670	
52 „	11. Bamboos ...	.....	46,300 „	46,300 „	46,300 „	1,266	
131 & 83 rafts.	12. Total ...	{ 124	1,655 & 46,674 No.	1,779 & 46,674 No.	{ 1,161 & 46,674 No.	{ 26,116	
313 & 40 rafts.	13. Total of same month last year.	{ 86	3,920 & 26,843 No.	4,006 & 26,843 No.	{ 3,978 & 26,843 No.	{ 21,454	
		Up.	Down.	Total.		Rs. A. P.	
	14. Total number of boats plying cargo No.	19	112	131	Total tollage of month— 24 + 25 + 26 ...	806 6 2	
	15. Total number of boats plying passenger No.	1	3	4			
	15½. Total empty boats „	137	18	155	Total tollage of same month last year ...	1,319 4 3	
	16. Total registered tonnage, cargo, private Tons	250	1,693	1,943			
	16½. Ditto ditto, Government Tons	.....	1,036	1,036	Memorandum of Tollage.		
	17. Total registered tonnage, passenger Tons	1	12	13			
	17½. Ditto empty „	1,310	105	1,415			
	18. Ton-mileage ...	39,652	64,358	104,010	1. Balance not recovered on the 1st of the month ...	34 3 6	
	19. Estimated value of cargo Rs.	9,048	15,934	24,982	2. Tollage per month ...	806 6 2	
	20. Number of passengers ...	1	8	9			
	21. Rafts, bamboos No.	.....	46,300	46,300	3. Total ...	840 9 8	
	22. Do., bullahs „	.....	374	374			
	23. Estimated value of rafts Rs.	.....	1,936	1,936	4. Amount credited in the accounts of the month ...	460 4 2	
	24. Tollage on boats „	177-12-0	544-1-0	721-13-0			
	25. Compounded tollage on boats Rs.	.....	.....	.....	5. Balance due at the end of the month ...	380 5 6	
	26. Tollage on rafts „	.....	84-9-2	84-9-2			
	27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-33			
	28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

KENDRAPARA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 75 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
360	1. Grain. ...	1,189	3,159	4,348	2,65,830	4,348	2,65,830
3	2. Cotton ...	103	.....	103	28,000	103	28,000
11	3. Oilseeds ...	.....	274	274	38,530	274	38,530
25	4. Salt ...	48	360	408	9,850	408	9,850
6	5. Piece-goods ...	125	.....	125	34,000	125	34,000
1	6. Metal ...	11	.....	11	1,500	11	1,500
80	7. Building materials ...	19	499	518	2,710	207	1,670
87	8. Miscellaneous ...	1,041	343	1,384	3,19,890	1,384	3,19,890
3	9. Fuel ...	10	.....	10	30	10	30
44 rafts	10. Timber ...	.....	8,898 c. ft.	8,898 c. ft.	1,500	8,898 c. ft.	1,500
88 „	11. Bamboos ...	.....	50,869 „	50,869 „	4,570	50,869 „	4,570
576 & 132 rafts.	12. Total ...	{ 2,546	4,635 & 59,767 c. ft.	7,181 & 59,767 c. ft. }	7,06,410 {	6,870 & 59,767 c. ft. }	7,05,370
492 & 58 rafts.	13. Total of same month last year.	{ 1,884 & 9 No.	2,633 & 98,724 No.	4,517 & 98,733 No. }	4,23,780 {	3,972 & 98,733 No. }	4,16,430
14. Total number of boats plying cargo	No.	273	303	576	Rs. A. P.		
15. Total number of boats plying passenger	No.	47	53	100	Total tollage of month— 24 + 25 + 26 ...		
15½. Ditto empty boats	„	313	307	620	7,713 1 0		
16. Total registered tonnage, cargo, private	Tons	3,882	6,393	10,275	Total tollage of same month last year ...		
16½. Ditto ditto, Government	„	.....	521	521	6,011 5 0		
17. Total registered tonnage, passenger	Tons	1,950	2,386	4,336	Memorandum of Tollage.		
17½. Ditto ditto empty boats	„	2,633	1,502	4,135	Rs. A. P.		
18. Ton-mileage	...	3,60,052	456,155	8,16,207	1. Balance not recovered on the 1st of the month ...		
19. Estimated value of cargo	Rs.	3,93,600	3,06,740	7,00,340	5,010 7 1		
20. Number of passengers	...	1,556	1,574	3,130	2. Tollage per month ...		
21. Rafts, bamboos	C. ft.	.....	50,869	50,869	7,713 1 0		
22. Do., timbers	„	.....	8,898	8,898			
23. Estimated value of rafts	Rs.	.....	6,070	6,070			
24. Tollage on boats	„	3,135-5-6	4,361-5-11	7,496-11-5	3. Total ...		
25. Compounded tollage on boats	Rs.	.....	.....	.....	12,723 8 1		
26. Tollage on rafts	„	.....	216-5-7	216-5-7	4. Amount credited in the accounts of the month ...		
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-1-8	7,612 13 7		
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-5-10	5. Balance due at the end of the month ...		
					5,110 10 6		

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
130	1. Grain ...	400	.....	400	24,350	400	24,350
1	2. Cotton ...	.....	2	2	400	2	400
6	3. Oilseeds ...	11	.....	11	880	11	880
58	4. Salt ...	.....	149	149	12,480	149	12,480
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
57	7. Building materials ...	112	513	625	1,380	112	720
129	8. Miscellaneous ...	353	51	404	26,000	404	26,000
16	9. Fuel ...	144	.....	144	400	80	220
7 rafts	10. Timber ...	4,386 c. ft.	.....	4,386 c. ft.	870	4,386 c. ft.	870
6 "	11. Bamboos ...	3,038 "	1,150 c. ft.	4,188 "	460	4,188 "	460
397 & 13 rafts.	12. Total ...	{ 1,020 & 7,424 c.ft.	{ 715 & 1,150 c. ft.	{ 1,735 & 8,574 c. ft.	{ 67,220	{ 1,158 & 8,574 c.ft }	{ 66,380
467 & 10 rafts.	13. Total of same month last year ...	{ 989 & 1,618 No.	{ 1,157 & 6,000 No.	{ 2,146 & 7,610 No.	{ 70,370	{ 1,218 & 7,610 No. }	{ 70,110
		Up.	Down.	Total.			Rs. A. P.
14. Total number of boats plying cargo No.		285	112	397	Total tollage of month— 24 + 25 + 26 ...		1,233 5 0
15. Total number of boats plying passenger No.		25	25	50	Total tollage of same month last year ...		1,020 9 0
15½. Ditto empty boats "		96	258	354	Memorandum of Tollage.		
16. Total registered tonnage, cargo, private Tons		2,263	471	2,734			
16½. Ditto ditto, Government "		135	1,050	1,185	Rs. A. P.		
17. Total registered tonnage, passenger Tons		476	537	1,013			
17½. Ditto empty boats "		815	1,182	1,997	1. Balance not recovered on the 1st of the month ...		166 12 7
18. Ton-mileage ...		88,217	60,796	149,013			
19. Estimated value of cargo Rs.		38,150	27,740	65,890	2. Tollage per month ...		1,233 5 0
20. Number of passengers ...		486	571	1,057			
21. Rafts, bamboos C. ft.		3,038	1,150	4,188			
22. Do., timbers "		4,386	.....	4,386	3. Total ...		1,400 1 7
23. Estimated value of rafts Rs.		1,230	100	1,330			
24. Tollage on boats "		714-14-6	476-2-9	1,191-1-3	4. Amount credited in the accounts of the month		758 2 7
25. Compounded tollage on boats Rs.		.....	.....	.....
26. Tollage on rafts "		38-6-9	3-13-0	42-3-9			
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-1-5	5. Balance due at the end of the month ...		641 15 0
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-7-11			

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 12½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
93	1. Grain ...	250	10	260	14,346	260	14,346
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
11	3. Oilseeds ...	3	11½	14½	1,236	14½	1,236
12	4. Salt ...	.....	50½	50½	7,070	50½	7,070
13	5. Piece-goods ...	.....	15½	15½	4,340	15½	4,340
...	6. Metal ...	.....	.....	.....	.....	.....	.....
98	7. Building materials ...	.....	838	838	501	.....	.....
11	8. Miscellaneous ...	4	34½	38½	3,487	38½	3,487
10	9. Fuel ...	.....	57½	57½	154	57½	154
7 rafts	10. Timber 202 No.	.....	1,212 c. ft.	1,212 c. ft.	606	1,212 c. ft.	606
29 „	11. Bamboos ...	.....	20,420 No.	20,420 No.	612	20,420 No.	612
248 & 36 rafts.	12. Total ...	{ 257	{ 1,017½ 1,212 c. ft. 20,420 No.	{ 1,274½ 1,212 c. ft. 20,420 No.	{ 32,352	{ 436½ 1,212 c. ft. 20,420 No.	{ 31,851
327 & 112 rafts.	13. Total of same month last year.	{ 601½	{ 1,347 & 11,694 c. ft. 25,625 No.	{ 1,948½ & 11,694 c. ft. 25,625 No.	{ 42,688	{ 658½ & 1,698 c. ft. 25,625 No.	{ 36,630
		Up.	Down.	Total.			
14.	Total number of boats plying cargo ... No.	88	160	248	Total tollage of month— 24 + 25 + 26 ...		
15.	Total number of boats plying passenger ... No.	.....	.....	.....
15½.	Ditto empty boats „	162	65	227	Total tollage of same month last year ...		
16.	Total registered tonnage, cargo and boat Tons	514	359	873			
16½.	Ditto Govt. ditto „	.....	1,676	1,676	Memorandum of Tollage.		
17.	Total registered tonnage, passenger Tons	.....	.....	.....
17½.	Ditto empty ditto „	913	176	1,089			
18.	Ton-mileage ...	18,406	23,580	41,986	1. Balance not recovered on the 1st of the month ...		
19.	Estimated value of cargo Rs.	14,197	16,937	31,134	C.E. 0 5 0		
20.	Number of passengers ...	542	345	887			
21.	Rafts, bamboos No.	.....	20,420	20,420	2. Tollage per month ...		
22.	Do., bullahs C. ft.	.....	1,212	1,212			
23.	Estimated value of rafts Rs.	.....	1,218	1,218	3. Total ...		
24.	Tollage on boats „	164-11-3	370-10-9	535-6-0			
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount credited in the accounts of the month ...		
26.	Tollage on rafts „	.....	20-9-6	20-9-6			
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-44			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-12-9	5. Balance due at the end of the month ...		

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	
		Up.	Down.	Total.	Rupees.	Tons.	
71	1. Grain ...	202	.....	202	11,395	202	11,395
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
2	4. Salt ...	2½	2½	5	450	5	450
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
75	7. Building materials ...	.....	577½	577½	1,510	.....	.....
4	8. Miscellaneous ...	.....	9½	9½	1,318	9½	1,318
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
12 rafts	11. Bamboos ...	800	1,750 No.	2,550 No.	120	2,550 No.	120
152 & 12 rafts.	12. Total ...	{ 204½ 800	{ 589½ 1,750 No.	{ 794 2,550 No.	{ 14,793	{ 216½ 2,550 No.	{ 13,283
176 & 2 rafts.	13. Total of same month last year.	{ 419	{ 317½ 100 No.	{ 736½ 100 No.	{ 26,024	{ 455 100 No.	{ 24,411
		Up.	Down.	Total.	Rs. A. P.		
14.	Total number of boats plying cargo No.	72	80	152	Total tollage of month— 24 + 25 + 26 ...		
15.	Total number of boats plying passenger No.	7	4	11	Total tollage of same month last year ...		
15½.	Ditto empty ditto "	78	61	139	407 7 9		
16.	Total registered tonnage, cargo and boats Tons	409	24	433	Memorandum of Tollage.		
16½.	Ditto of Govt. do. "	.....	1,155	1,155			
17.	Total registered tonnage, passenger Tons	49	27	76	Rs. A. P.		
17½.	Ditto empty ditto "	470	151	621			
18.	Ton-mileage ...	7,645	12,052	19,697	1. Balance not recovered on the 1st of the month ...	C.E. 0 10 0	
19.	Estimated value of cargo Rs.	11,547	3,126	14,673	2. Tollage per month ...	369 10 3	
20.	Number of passengers ...	311	266	577	3. Total ...	369 0 3	
21.	Rafts, bamboos No.	800	1,750	2,550	4. Amount credited in the accounts of the month ...	369 10 3	
22.	Do., bullahs C. ft.	.....	.....	.....	5. Balance due at the end of the month ...	C.E. 0 10 0	
23.	Estimated value of rafts Rs.	40	80	120			
24.	Tollage on boats "	139-0-3	229-0-6	368-0-9			
25.	Compounded tollage on boats Rs.	.....	.....	.....
26.	Tollage on rafts "	0-8-0	1-1-6	1-9-6			
27.	Total tollage on boats per ton-mile	.....	.....	0-0-3-58			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	.....

JAJEPORE CANAL.

LENGTH OF CANAL OPEN, 6½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
8	1. Grain ...	.....	3	3	160	3	160	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
...	3. Oilseeds ...	.....	.....	.....	.....	.....	.....
...	4. Salt ...	.....	.....	.....	.....	.....	.....
2	5. Piece-goods ...	.....	1	1	80	1	80	
...	6. Metal ...	.....	.....	.....	.....	.....	.....
...	7. Building materials ...	.....	.....	.....	.....	.....	.....
2	8. Miscellaneous ...	.....	5	5	560	5	560	
...	9. Fuel ...	.....	.....	.....	.....	.....	.....
4 rafts	10. Timber ...	.....	678 c. ft.	678 c. ft.	51	678 c. ft.	51	
26 „	11. Bamboos ...	.....	14,434 No.	14,434 No.	577	14,434 No.	577	
12 & 30 rafts.	12. Total ...	{	9 678 c. ft. 14,434 No.	9 678 c. ft. 14,434 No.	{ 1,428	{ 9 678 c. ft. 14,434 No.	{ 1,428	
31 & 38 rafts.	13. Total of same month last year.	{ 2	25 1,344 c. ft. 7,200 No.	27 1,344 c. ft. 7,200 No.	{ 1,975	{ 27 1,344 c. ft. 7,200 No.	{ 1,975	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		.....	12	12	Total tollage of month— 24 + 25 + 26 ...			7 7 10
15. Total number of boats plying passenger No.		1	1	2	Total tollage of same month last year ...			14 12 4
15½. Ditto empty ditto „		10	1	11				
16. Total registered tonnage, cargo and boats Tons		.....	18	18				
16½. Ditto of Govt. do. „		.....	.....	.....	Memorandum of Tollage.			
17. Total registered tonnage, passenger Tons		6	6	12				
17½. Ditto empty ditto „		8	½	8½				Rs. A. P.
18. Ton-mileage ...		36	186	222	1. Balance not recovered on the 1st of the month ...			.....
19. Estimated value of cargo Rs.		.....	800	800	2. Tollage per month ...			7 7 10
20. Number of passengers ...		67	57½	124½	3. Total ...			7 7 10
21. Rafts, bamboos No.		.....	14,434	14,434	4. Amount credited in the accounts of the month ...			7 3 10
22. Do., bullahs C. ft.		.....	678	678	5. Balance due at the end of the month ...			0 4 0
23. Estimated value of rafts Rs.		.....	628	628				
24. Tollage on boats „		1-4-6	2-15-6	4-4-0				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts „		.....	3-3-10	3-3-10				
27. Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-67				
28. Total tollage on rafts per 100 cubic feet Rs.		.....	.....	0-2-3				

SOUTH-WESTERN CIRCLE.
MIDNAPORE CANAL.
LENGTH OF CANAL OPEN, 53 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
893	1. Grain ...	4,266	639	4,905	2,68,318	4,905	2,68,318	The Canal from Mohonpore to Ballisnuck closed from the 20th April to the 10th May 1890, and the Ooloharia Lock closed to traffic from the 27th April.
1	2. Cotton ...	...	8	8	3,792	8	3,792	
55	3. Oilseeds ...	607	129	736	74,234	736	74,234	
123	4. Salt ...	.....	1,307	1,307	1,31,324	1,307	1,31,324	
10	5. Piece-goods ...	1	77	78	2,22,400	78	2,22,400	
27	6. Metal ...	131	192	323	2,58,715	323	2,58,715	
30	7. Building materials	411	9	420	1,965	420	1,965	
541	8. Miscellaneous ...	1,298	796	2,094	3,29,853	2,094	3,29,853	
41	9. Fuel ...	141	255	396	7,229	396	7,229	
64 rafts	10. Timber ...	8,783 c. ft.	1,285 c. ft.	10,068 c. ft.	7,041	10,068 c. ft.	7,041	
4 "	11. Bamboos ...	50 "	50 "	100 "	21	100 "	21	
1,721 & 68 rafts.	12. Total ...	{ 6,855 & 8,833 c. ft.	{ 3,412 & 1,335 c. ft.	{ 10,267 & 10,168 c. ft.	{ 13,04,892	{ 10,267 & 10,168 c. ft.	{ 13,04,892	
2,151 & 55 rafts.	13. Total of same month last year.	{ 8,954 & 17,597 c. ft.	{ 2,848 & 162 c. ft.	{ 11,802 & 17,759 c. ft.	{ 9,53,224	{ 11,802 & 17,759 c. ft.	{ 9,53,224	
		Up.	Down.	Total.	Rs. A. P.			
14.	Total number of boats plying cargo No.	1,252	469	1,721	Total tollage of month— 24+25+26 ...	10,904 14 3		
15.	Total number of boats plying passenger No.	441	640	1,081	Total tollage of same month last year ...	13,235 10 6		
15½.	Ditto empty "	342	815	1,157				
16.	Total registered tonnage, cargo Tons	18,147	7,975	26,122	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	3,005	3,129	6,134				
17½.	Ditto empty "	1,669	4,241	5,910	Rs. A. P.			
18.	Ton-mileage ...	443,793	243,372	687,165	1. Balance not recovered on the 1st of the month ...	4,613 12 1		
19.	Estimated value of cargo Rs.	5,40,640	7,57,190	12,97,830	2. Tollage per month ...	10,904 14 3		
20.	Number of passengers ...	3,408	9,460	12,868				
21.	Rafts, bamboos C. ft.	50	50	100				
22.	Do., bullahs "	8,783	1,285	10,068	3. Total ...	15,518 10 4		
23.	Estimated value of rafts Rs.	4,354	2,708	7,062				
24.	Tollage on boats "	6,995-4-9	3,707-12-9	10,703-1-6				
25.	Compounded tollage on boats Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...	8,737 8 6 *—7 12 0		
26.	Tollage on rafts "	185-2-3	16-10-6	201-12-9				
27.	Total tollage on boats per ton-mile Pie	.....	.....	0-0-2-9				8,779 12 6
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	1-15-9	5. Balance due at the end of the month ...	6,738 13 10		

HIDGELLER TIDAL CANAL.

LENGTH OF CANAL OPEN, 29 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
185	1. Grain ...	1,268	17	1,285	44,331	1,285	44,331	
...	2. Cotton ...	.....	...	.....	.....	.....	.....
3	3. Oilseeds ...	3	1	4	500	4	500	
16	4. Salt ...	.....	106	106	10,407	106	10,407	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
...	6. Metal ...	.....	.....	.....	.....	.....	.....
3	7. Building materials ...	...	9	9	63	9	63	
286	8. Miscellaneous ...	2	182	184	29,631	184	29,631	
11	9. Fuel ...	5	131	136	945	65	445	
2 rafts	10. Timber ...	.....	54 c. ft.	54 c. ft.	42	54 c. ft.	42	
4 "	11. Bamboos ...	25 c. ft.	125 "	150 "	16	150 "	16	
504 & 6 rafts.	12. Total ...	{ 1,278 25	446 & 179 c. ft.	{ 1,724 & 204 c. ft. }	85,935 {	1,653 & 204 c. ft. }	85,435	
1,176 & 6 rafts.	13. Total of same month last year.	{ 4,818 1,200 c. ft.	1,127 & 179 c. ft.	{ 5,945 & 1,379 c. ft. }	3,18,237 {	5,884 & 1,379 c. ft. }	3,11,787	
14. Total number of boats ply- ing cargo	No.	209	295	504	Total tollage of month— 24 + 25 + 26		Rs. A. P. 1,700 8 0	
15. Total number of boats ply- ing passenger	No.	16	14	30	Total tollage of same month last year		5,601 0 3	
16. Total registered tonnage, cargo	Tons	2,516	2,159	4,675	<i>Memorandum of Tollage.</i>			
17. Total registered tonnage, passenger	Tons	361	387	748				
18. Ton-mileage ...	...	51,402	45,702	97,104	Rs. A. P.			
19. Estimated value of cargo	Rs.	81,024	4,853	85,877				
20. Number of passengers ...	...	1,060	1,290	2,350	1. Balance not recovered on the 1st of the month ...			
21. Rafts, bamboos	C. ft.	25	125	150	2. Tollage per month ...			
22. Do., bullahs	"	.....	54	54				
23. Estimated value of rafts	Rs.	3	55	58	3. Total ...			
24. Tollage on boats	"	1,624-8-0	74-0-0	1,698-8-0				
25. Compounded tollage on boats	Rs.	.....	.....	.....	4. Amount paid into treasury during the month ...			
26. Tollage on rafts	"	0-1-0	1-15-0	2-0-0				
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-3-3				
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-15-8	5. Balance due at the end of the month			

* Difference of Rs. 46-11-0 with that of previous month adjusted in the supplementary accounts for March 1890.

SONE CIRCLE.
PATNA CANAL SYSTEM.
LENGTH OF CANAL OPEN, 86½ MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
19	1. Grain ...	.....	216	216	12,960	216	12,960	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
89	3. Oilseeds ...	.....	1,067	1,067	98,520	1,067	98,520	
18	4. Salt ...	149	.....	149	6,615	149	6,615	
16	5. Piece-goods ...	114	.....	114	65,009	114	65,009	
...	6. Metal ...	7	.....	7	2,354	7	2,354	
36	7. Building materials	162	18	180	4,071	71	1,892	
62	8. Miscellaneous ...	126	298	424	8,21,100	424	8,21,100	
3	9. Fuel { By boat	2	11	13	168	13	168	
	{ „ rafts	.....	74	74	250	74	250	
1	10. Timber { By boat	3	.....	3	100	3	100	
	{ „ rafts	.....	869	869	10,367	869	10,367	
19	11. Bamboos { By boat	149	.....	149	3,874	149	3,874	
	{ „ rafts	.....	1,497	1,497	18,392	1,497	18,392	
263	12. Total ...	712	4,050	4,762	10,43,780	4,653	10,41,601	
57	13. Total of same month last year ...	102	985	1,087	53,367	1,083	53,317	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	109	153	262	Total tollage of month— 24 + 25 + 26 ...	3,825 5 3
15. Total number of boats plying passenger No.	5	8	13		
15½. Ditto empty boats „	150	14	164	Total tollage of same month last year ...	751 3 6
16. Total registered tonnage, cargo Tons	1,463	2,715	4,178		
17. Total registered tonnage, passenger Tons	171	223	394		
17½. Ditto empty boats „	632	54	686		
18. Ton-mileage ...	1,09,570	297,643	4,07,213		
19. Estimated value of cargo Rs.	91,403	923,368	10,14,771		
20. Number of passengers ...	448	572	1,020		
21. Rafts, bamboos C. ft.	.....	224,606	2,24,606		
22. Do., bullahs „	.....	70,731	70,731		
23. Estimated value of rafts Rs.	.....	29,009	29,009		
24. Tollage on boats „	864-14-9	1,816-13-0	2,681-11-9		
25. Compounded tollage on boats Rs.	75-0-0	75-0-0	150-0-0		
26. Tollage on rafts „	.....	993-9-6	993-9-6		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-13		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-4		
				1. Balance not recovered on the 1st of the month ...	216 7 7
				2. Tollage per month ...	3,825 5 3
				3. Total ...	4,041 12 10
				4. Amount credited in the accounts of the month ...	3,402 7 9
				5. Balance due at the end of the month ...	639 5 1

ARRAH CANAL SYSTEM.
LENGTH OF CANAL OPEN, 65 MILES.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
8	1. Grain ...	.....	40	40	2,094	40	2,094	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
43	3. Oilseeds ...	.....	707	707	77,900	707	77,900	
26	4. Salt ...	326	.....	326	49,581	326	49,581	
4	5. Piece-goods ...	21	.....	21	44,250	21	44,250	
...	6. Metal ...	1	.....	1	1,200	1	1,200	
4	7. Building materials ...	5	13	18	110	18	110	
98	8. Miscellaneous ...	66	732	798	2,52,430	775	2,51,902	
7	9. Fuel ...	95	.....	95	929	.....	.....
...	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts	11. Bullahs ...	.....	1,026	1,026	7,326	1,026	7,326	
	11. Bamboos ...	.....	597	597	6,620	597	6,620	
	11. Firewood ...	.....	10	10	25	10	25	
150	12. Total ...	514	3,125	3,639	4,42,465	3,521	4,41,008	
175	13. Total * of same month last year.	533	3,792	4,325	4,07,364	4,164	4,00,788	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	50	140	190	Total tollage of month— 24 + 25 + 26 ...	2,077 5 3
15. Total number of boats plying passenger No.	5	4	9	Total tollage of same month last year ...	2,261 5 6
15½. Total number of empty boats No.	130	2	132		
16. Total registered tonnage, cargo Tons	960	2,294	3,254		
17. Total registered tonnage, passenger Tons	103	75	178		
17½. Total registered tonnage, empty Tons	477	9	486		
18. Ton-mileage ...	68,524	113,091	181,615		
19. Estimated value of cargo Rs.	99,778	3,28,716	4,28,494		
20. Number of passengers ...	1,275	916	2,191		
21. Rafts, bamboos C.ft.	.....	89,570	89,570		
22. Do., bullahs ..	.....	76,936	76,936		
22½. Do., firewood ..	.....	800	800		
23. Estimated value of rafts Rs.	.....	13,971	13,971		
24. Tollage on boats ..	320-15-3	913-14-9	1,234-14-0		
25. Compounded tollage on boats Rs.	228-0-0	228-0-0	456-0-0		
26. Tollage on rafts ..	.....	386-7-3	386-7-3		
27. Total tollage on boats per ton-mile Rs.	.....	.....	0-0-1-78		
28. Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-8		

Memorandum of Tollage.				Rs. A. P.
1. Balance not recovered on the 1st of the month ...	...	...	...	228 12 9
2. Tollage per month ...	...	...	...	2,077 5 3
3. Total ...	...	...	...	2,306 2
4. Amount credited in the accounts of the month ...	...	...	...	2,166 0
5. Balance due at the end of the month ...	...	...	...	140 1

BUXAR CANAL SYSTEM.

LENGTH OF CANAL OPEN, 67 MILES.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	
2	1. Grain ...	1	19	20	1,202	20	1,202
..	2. Cotton ...	2	.....	2	3,200	2	3,200
36	3. Oilseeds ...	.....	682	682	84,380	682	84,380
...	4. Salt ...	5	.....	5	656	5	656
...	5. Piece-goods ...	2	.....	2	7,120	2	7,120
...	6. Metal ...	.....	.....	.....	.....	.....	.....
8	7. Building materials ...	47	40	87	555	18	65
21	8. Miscellaneous ...	83	181	264	37,529	261	37,504
43	9. Fuel ...	.....	456	456	5,470	456	5,470
Rafts {	10. Timber ...	.....	239	239	1,631	239	1,631
	11. Bamboos ...	.....	233	233	2,600	233	2,600
110	12. Total ...	140	1,850	1,990	1,44,343	1,918	1,43,828
66	13. Total of same month last year.	410	1,730	2,140	73,445	1,771	69,980
		Up.	Down.	Total.			
14.	Total number of boats ply- ing cargo No.	12	98	110			Rs. A. P.
15.	Total number of boats ply- ing passenger No.	10	9	19	Total tollage of month— 24 + 25 + 26 ...		1,196 14 6
15½.	Ditto empty boats "	60	15	75			
16.	Total registered tonnage, cargo Tons	179	2,292	2,471	Total tollage of same month last year ...		1,073 6 3
17.	Total registered tonnage, passenger Tons	270	243	513			
17½.	Ditto empty "	207	59	266			
18.	Ton-mileage ...	15,088	57,728	72,816	Memorandum of Tollage.		
19.	Estimated value of cargo Rs.	19,762	1,20,350	1,40,112			Rs. A. P.
20.	Number of passengers ...	740	597	1,337	1. Balance not recovered on the 1st of the month ...		.....
21.	Rafts, bamboos C. ft.	.....	34,930	34,930			
22.	Do., bullahs "	.....	17,989	17,989	2. Tollage per month ...		1,196 14 6
23.	Estimated value of rafts Rs.	.....	4,231	4,231			
24.	Tollage on boats "	114-14-0	673-13-6	788-11-6	3. Total ...		1,196 14 6
25.	Compounded tollage on boats Rs.	107-0-0	107-0-0	214-0-0			
26.	Tollage on rafts "	.....	194-3-0	194-3-0	4. Amount credited in the accounts of the month ...		1,144 6 6
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-2-6			
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-5-10	5. Balance due at the end of the month ...		52 8 6

**ABSTRACT FOR THE MONTH OF APRIL 1890 AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
<i>Orissa Circle.</i>	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Taldunda Canal System ...	806	6	2	806	6	2	1,319	4	3	1,319	4	3	
Kendrapara Canal System ...	7,713	1	0	7,713	1	0	6,011	5	0	6,011	5	0	
High Level, Range I ...	1,233	5	0	1,233	5	0	1,020	9	0	1,020	9	0	
Ditto " II ...	555	15	6	555	15	6	837	3	9	837	3	9	
Ditto " III ...	369	10	3	369	10	3	407	7	9	407	7	9	
Jajepore Canal ...	7	7	10	7	7	10	14	12	4	14	12	4	
Total Orissa Circle ...	10,685	13	9	10,685	13	9	9,610	10	1	9,610	10	1	
<i>South-Western Circle.</i>													
Midnapore Canal ...	10,904	14	3	10,904	14	3	13,235	10	6	13,235	10	6	
Hidgellee Tidal Canal ...	1,700	8	0	1,700	8	0	5,601	0	3	5,601	0	3	
Total South-Western Circle	12,605	6	3	12,605	6	3	18,836	10	9	18,836	10	9	
<i>Sone Circle.</i>													
Patna Canal System ...	3,825	5	3	3,825	5	3	751	3	6	751	3	6	
Arrah ditto ...	2,077	5	3	2,077	5	3	2,261	5	6	2,261	5	6	
Buxar ditto ...	1,196	14	6	1,196	14	6	1,073	6	3	1,073	6	3	
Total Sone Circle ...	7,099	9	0	7,099	9	0	4,085	15	3	4,085	15	3	
GRAND TOTAL ...	30,390	13	0	30,390	13	0	32,533	4	1	32,533	4	1	

GOVERNMENT TRANSPORT SERVICE.

CANAL.	TRAFFIC, 1890-91.						TRAFFIC, 1889-90.					
	During the month.			To end of the month.			During the month.			To end of the month.		
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods.	Total receipts.
<i>Orissa Circle.</i>	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.
High Level ...	1,307	2,816	1,443 14 5	1,307	2,816	1,443 14 5	855	2,380	1,081 0 10	855	2,380	1,081 0 10
Total Orissa Circle ...	1,307	2,816	1,443 14 5	1,307	2,816	1,443 14 5	855	2,380	1,081 0 10	855	2,380	1,081 0 10

TOTAL NAVIGATION RECEIPTS.

CANAL.	EARNINGS, 1890-91.						EARNINGS, 1889-90.						REMARKS.
	During the month.			To end of the month.			During the month.			To end of the month.			
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
Orissa Canals	12,129	12	2	12,129	12	2	10,691	10	11	10,691	10	11	
Midnapore Canal	10,904	14	3	10,904	14	3	13,235	10	6	13,235	10	6	
Hidgellee Tidal Canal	1,700	8	0	1,700	8	0	5,601	0	3	5,601	0	3	
Sone Canals	7,099	9	0	7,099	9	0	4,085	15	3	4,085	15	3	
Total	31,834	11	5	31,834	11	5	33,614	4	11	33,614	4	11	

CALCUTTA,
The 1st July 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of April 1890.

DATE.	Miles.	RIVER GANGES.																RIVER BHAGIRUTHER.	RIVER JELLINGHER.	RIVER BRAHMAPOOTRA.									
		Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Beaulah.		Goalundo.		Berhampore.	Sarungunge.	Gowhatty.									
		86		134		48		90		177		87		287		110		381		94		471		90		591		120	
		From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad	From Allahabad
Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.	Height over zero.	Height over mean sea-level.
1st	...	Below zero.	206'14	Below zero.	195'82	1'33	170'38	6'05	140'28	Below zero.	97'74	3'33	64'47	1'58	40'42	2'00	10'94	1'67	35'41	1'71	6'01	2'00	150'76	1'67	35'41	1'71	6'01	2'00	150'76
2nd	...	0'08	206'14	0'08	195'80	1'33	170'38	6'00	140'23	4'11	97'68	3'33	64'67	1'61	40'39	2'17	11'11	1'67	35'41	1'75	6'05	1'80	150'56	1'67	35'41	1'75	6'05	1'80	150'56
3rd	...	0'08	206'14	1'02	195'78	1'33	170'38	6'00	140'23	4'21	97'64	3'42	64'58	1'65	40'35	2'33	11'27	1'63	35'37	2'00	6'30	1'40	150'16	1'63	35'37	2'00	6'30	1'40	150'16
4th	...	0'08	206'14	1'04	195'76	1'33	170'38	5'95	140'18	4'25	97'60	3'42	64'58	1'67	40'33	2'50	11'44	1'63	35'37	2'33	6'06	1'00	149'76	1'63	35'37	2'33	6'06	1'00	149'76
5th	...	0'08	206'14	1'06	195'74	1'25	170'30	5'95	140'18	4'27	97'58	3'42	64'58	1'69	40'31	2'58	11'52	1'63	35'37	2'63	6'33	0'40	149'16	1'63	35'37	2'63	6'33	0'40	149'16
6th	...	0'08	206'14	1'08	195'72	1'25	170'30	5'94	140'18	4'29	97'56	3'42	64'58	1'71	40'29	2'67	11'61	1'63	35'37	3'17	7'47	0'60	148'36	1'63	35'37	3'17	7'47	0'60	148'36
7th	...	0'08	206'14	1'11	195'69	1'25	170'30	5'95	140'18	4'33	97'53	3'33	64'67	1'73	40'27	2'75	11'69	1'63	35'37	3'33	7'63	0'80	148'56	1'63	35'37	3'33	7'63	0'80	148'56
8th	...	0'17	206'05	1'13	195'67	1'17	170'22	5'95	140'13	4'34	97'49	3'33	64'67	1'73	40'27	2'83	11'77	1'58	35'32	3'00	7'30	0'50	148'36	1'58	35'32	3'00	7'30	0'50	148'36
9th	...	0'17	206'05	1'15	195'65	1'17	170'22	5'95	140'13	4'38	97'47	3'42	64'58	1'73	40'27	2'83	11'77	1'58	35'32	3'25	7'55	0'80	148'56	1'58	35'32	3'25	7'55	0'80	148'56
10th	...	0'17	206'05	1'17	195'63	1'17	170'22	5'95	140'13	4'42	97'43	3'42	64'58	1'75	40'25	2'83	11'77	1'58	35'32	3'08	7'38	1'00	149'76	1'58	35'32	3'08	7'38	1'00	149'76
11th	...	0'17	206'05	1'19	195'61	1'17	170'22	5'95	140'13	4'46	97'39	3'50	64'50	1'75	40'25	2'83	11'77	1'58	35'32	3'00	7'30	0'90	149'56	1'58	35'32	3'00	7'30	0'90	149'56
12th	...	0'17	206'05	1'21	195'59	1'17	170'22	5'90	140'13	4'48	97'37	3'50	64'50	1'75	40'25	2'75	11'69	1'58	35'32	2'83	7'15	1'00	149'76	1'58	35'32	2'83	7'15	1'00	149'76
13th	...	0'17	206'05	1'23	195'57	1'08	170'13	5'90	140'13	4'50	97'35	3'50	64'50	1'78	40'22	2'67	11'61	1'58	35'32	2'71	7'01	1'40	150'16	1'58	35'32	2'71	7'01	1'40	150'16
14th	...	0'17	206'05	1'25	195'55	1'08	170'13	5'90	140'13	4'54	97'31	3'58	64'42	1'78	40'22	2'58	11'52	1'54	35'28	2'67	6'97	2'00	150'76	1'54	35'28	2'67	6'97	2'00	150'76
15th	...	0'17	206'05	1'27	195'53	1'08	170'13	5'90	140'13	4'58	97'27	3'58	64'42	1'78	40'22	2'50	11'44	1'54	35'28	2'54	6'84	3'40	152'16	1'54	35'28	2'54	6'84	3'40	152'16
16th	...	0'17	206'05	1'29	195'51	1'00	170'05	5'90	140'13	4'63	97'22	3'67	64'33	1'75	40'25	2'67	11'61	1'54	35'28	2'42	6'72	5'76	154'62	1'54	35'28	2'42	6'72	5'76	154'62
17th	...	0'17	206'05	1'31	195'49	1'00	170'05	5'90	140'13	4'67	97'18	3'67	64'33	1'75	40'25	2'67	11'61	1'54	35'28	2'58	6'88	7'70	156'46	1'54	35'28	2'58	6'88	7'70	156'46
18th	...	0'25	205'97	1'33	195'47	0'92	169'97	5'90	140'13	4'69	97'16	3'58	64'42	1'71	40'29	3'50	12'44	1'54	35'28	3'33	7'63	10'00	158'76	1'54	35'28	3'33	7'63	10'00	158'76
19th	...	0'25	205'97	1'36	195'44	0'92	169'97	5'90	140'13	4'69	97'16	3'58	64'42	1'69	40'31	3'75	12'69	1'54	35'28	3'25	7'55	10'40	159'16	1'54	35'28	3'25	7'55	10'40	159'16
20th	...	0'25	205'97	1'38	195'42	0'83	169'88	6'00	140'23	4'75	97'10	3'58	64'42	1'69	40'31	4'58	13'53	1'58	35'32	3'42	7'72	11'00	159'76	1'58	35'32	3'42	7'72	11'00	159'76
21st	...	0'25	205'97	1'40	195'40	0'83	169'88	6'00	140'23	4'77	97'08	3'58	64'42	1'71	40'29	5'42	14'36	1'63	35'37	3'67	7'97	9'50	158'26	1'63	35'37	3'67	7'97	9'50	158'26
22nd	...	0'25	205'97	1'42	195'38	0'83	169'88	6'00	140'23	4'79	97'06	3'67	64'33	1'73	40'27	6'17	15'11	1'67	35'41	3'42	7'72	6'90	155'06	1'67	35'41	3'42	7'72	6'90	155'06
23rd	...	0'25	205'97	1'44	195'36	0'75	169'80	6'00	140'23	4'83	97'02	3'67	64'33	1'75	40'25	6'50	15'44	1'67	35'41	3'25	7'55	5'80	154'56	1'67	35'41	3'25	7'55	5'80	154'56
24th	...	0'25	205'97	1'46	195'34	0'75	169'80	6'10	140'33	4'86	96'99	3'67	64'33	1'75	40'25	6'50	15'44	1'63	35'37	3'08	7'38	5'90	154'66	1'63	35'37	3'08	7'38	5'90	154'66
25th	...	0'25	205'97	1'48	195'32	0'67	169'72	6'10	140'33	4'90	96'95	3'67	64'33	1'75	40'25	6'42	15'36	1'63	35'37	2'92	7'22	6'20	154'96	1'63	35'37	2'92	7'22	6'20	154'96
26th	...	0'25	205'97	1'50	195'30	0'67	169'72	6'10	140'33	4'92	96'93	3'50	64'50	1'77	40'23	5'92	14'86	1'58	35'32	2'46	6'76	5'40	154'16	1'58	35'32	2'46	6'76	5'40	154'16
27th	...	0'25	205'97	1'52	195'28	0'67	169'72	6'10	140'33	4'94	96'91	3'42	64'58	1'77	40'23	5'42	14'36	1'58	35'32	2'08	6'38	5'50	154'26	1'58	35'32	2'08	6'38	5'50	154'26
28th	...	0'33	205'89	1'54	195'26	0'58	169'63	6'10	140'33	4'96	96'89	3'42	64'58	1'73	40'27	5'00	13'94	1'58	35'32	1'83	6'13	5'40	154'16	1'58	35'32	1'83	6'13	5'40	154'16
29th	...	0'33	205'89	1'56	195'24	0'58	169'63	6'10	140'33	4'96	96'89	3'08	64'92	1'69	40'31	4'75	13'69	1'58	35'32	2'00	6'30	5'40	154'16	1'58	35'32	2'00	6'30	5'40	154'16
30th	...	0'33	205'89	1'58	195'22	0'58	169'63	6'20	140'33	5'00	96'85	2'92	65'08	1'67	40'33	4'75	13'69	1'58	35'32	2'08	6'38	6'00	154'76	1'58	35'32	2'08	6'38	6'00	154'76

CALCUTTA,
The 1st July 1890.

G. A. G. SHAW, E.
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 28th June 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 28TH JUNE 1890.			WEEK ENDING SATURDAY, THE 29TH JUNE 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	167	24,332	304	212	54,150	828
Jute	2	675	12	26	10,350	169
Firewood	35	19,400	297	89	56,775	893
Other articles	564	1,30,738	1,749	729	2,32,675	3,189
Total	768	1,75,145	2,362	1,056	3,52,950	5,079

Nalhati State Railway.

*Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State
Railway during the month of May 1890, as compared with the same month of the previous year.*

STAPLES.	1889.		1890.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1889.	1890.		
Coal	Tons. 405	Tons. 152	Tons. 152	Tons. 405	Tons. 405	Tons. 152	Tons. 253	Tons. 253
Cotton raw	2	2	2	2	2	2		
Cotton piece-goods—								
1.—European	56	42	42	56	56	42		14
Grains—								
2.—Rice	7	68	68	35	35	128	113	
4.—Others	32	30	30	44	44	62	8	
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed		2	5	2	2	5	3	
2.—Skins of sheep, goats and small animals—								
a.—Dressed		1	1	1	1	1		1
b.—Undressed		1						
Jute—								
1.—Raw	80	196	196	30	30	196	166	
2.—Gunny-bags and cloths	8	3	4	11	11	13	7	
Lac—								
1.—Stick	3	3	1	2	2	4	2	
Leather, manufactured	1			1	1			1
Liquors—								
1.—Beer	1			1	1			1
2.—Wines	1	1		1	1			
Metals—								
2.—Iron	4	12		4	4	12	8	
4.—Others	2	12	4	4	4	16	12	
Oils—								
1.—Castor	1	2		1	1	2	1	
2.—Kerosine	1			1	1			1
3.—Others	11	3		11	11	3		8
Oilseeds—								
1.—Linseed	1	493	12	494	494	12		482
2.—Mustard and rape	165	36	1	165	165	37		128
Provisions—								
1.—Ghee	1	2		1	1	2	1	
2.—Dried fruits and nuts	1	1	1	1	1	2	1	
3.—Others	14	12		14	14	12		2
Paper and pasteboard	1			1	1			1
Railway plant and rolling-stock	7	14	52	37	21	89	68	
Salt	93	94		93	93	94	1	
Silk, raw—								
2.—Indian	2	15	3	21	17	24	7	
Silk piece-goods—								
2.—Indian		2	1	3	2	4	2	
Spices—								
2.—Others		3				3	3	
Stone and lime	11	14		11	11	14	3	
Sugar—								
1.—Drained	17	38		17	38	21		
2.—Undrained	4	27		4	27	23		
Tobacco	9	2		11	11			11
Timber			6			6	6	
Wool—								
2.—Piece-goods—								
b.—Indian	1			1	1			1
All other articles of merchandise	105	13	200	35	115	244	129	
Total	964	600	829	413	1,564	1,242	322	904

INCREASE.						Tons.
Grain—						
(2) Rice	...	...	...	...	...	113
This is due to greater export owing to high rate at Calcutta.						
Jute—						
(1) Raw	...	...	...	...	...	166
This is due to greater export at Calcutta for want of water in the Bhagiruthy.						
Railway plant and rolling-stock	...	...	...	...	...	68
This is due to more materials carried during the month for maintenance.						
Sugar—						
(1) Drained	...	...	...	...	...	21
Due to greater demand in the local market in Moorshedabad.						
(2) Undrained	...	...	...	...	...	23
Due to greater demand in the local market in Moorshedabad.						
DECREASE.						
Coal	...	...	...	...	...	253
Due to previous stock not being exhausted.						
Cotton piece-goods—						
(1) European	...	...	...	...	...	14
Due to import by steamer plying between Tentooliah on the Bhairab and Calcutta.						
Oil-seeds—						
(1) Linseed	...	...	...	...	...	482
Exported to Calcutta by steamer plying between Tentooliah and Calcutta.						
(2) Mustard and rape	...	...	...	...	...	128
Due to less import owing to less demand.						
Tobacco	...	...	...	...	...	11
Due to less import owing to less demand.						

R. G. MOOKERJEE,
Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	*302,345	*3,00,841 1 0	21,17,678 30	4,81,904 1 0	20,949 6 6	8,12,694 8 6	65,354½	87,539½	152,894
Or per mile of railway ...	...	203 1 9	...	315 14 4	13 11 9	532 11 10	...	...	...
For previous 2½ weeks of half-year ...	6,801,234	68,09,607 5 0	6,13,15,756 10	1,44,82,000 4 3	4,03,591 13 9	2,17,85,199 7 0	1,568,769½	2,315,750½	3,884,519½
Total for 26 weeks ...	6,693,579	71,19,448 6 0	6,84,33,435 0	1,49,63,904 5 3	5,14,541 8 9	3,23,07,893 15 0	1,634,123½	2,403,289½	4,037,413½
COMPARISON.									
Total for corresponding week of previous year ...	285,480½	2,68,901 8 3	24,88,564 20	6,00,875 7 10	21,945 8 8	9,00,702 8 9	63,942	105,402	169,344
Per mile of railway corresponding week of previous year ...	...	176 4 4	...	399 12 5	14 6 2	590 6 11	...	...	...
Total to corresponding date of previous year ...	6,767,244½	72,64,759 1 6	7,15,48,268 10	1,56,58,703 3 2	4,40,735 2 0	2,33,62,188 6 8	1,630,712	2,514,304	4,145,016

* The increase in coaching traffic is partly due to the sun eclipse and partly to "Rathjatra."

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,00,703	590	1,525½	8,12,695	533	1,525½	1,12,36,305	614	1,525½	1,04,20,307	570	...	8,06,998

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	13,401	6,041 11 0	33,577 0	2,114 9 0	48 14 0	8,205 2 0	853	743	1,596
Or per mile of railway ...	234½	105 10 0	592 20	36 15 6	0 13 8	143 7 2	.....	.....	.....
For previous 24 weeks of half-year ...	332,007	1,65,405 7 0	11,75,326 20	75,323 6 0	1,103 8 0	2,41,892 5 0	37,921½	17,951	55,872½
Total for 25 weeks ...	345,408	1,71,507 2 0	12,09,203 20	77,437 15 0	1,152 6 0	2,60,997 7 0	38,774½	18,694	57,468½
COMPARISON.									
Total for corresponding week of previous year ...	10,776	5,377 6 11	49,417 0	2,471 1 0	32 4 3	7,790 12 0	994	745	1,739
Per mile of railway corresponding week of previous year ...	185½	92 4 2	706 30	43 3 3	0 9 0	136 0 5	.....	.....	.....
Total to corresponding date of previous year ...	337,950½	1,75,383 2 9	11,66,357 0	65,727 9 0	1,696 14 0	2,42,782 9 9	41,782	19,196	60,978

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,781	136	57½	8,205	143	57½	1,05,183	153	57½	1,21,467	177	16,279	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	21,418	5,540 5 0	8,130 10	306 5 0	7 12 0	5,254 6 0	908	60	968
Or per mile of railway ...	.....	249 0 1	.....	13 12 3	0 5 7	263 1 11	.....	.....	.....
For previous 24 weeks of half-year ...	536,739	1,41,489 0 0	3,54,711 20	11,327 6 0	219 4 0	1,53,035 10 0	21,858	2,417	23,775
Total for 25 weeks ...	558,157	1,47,029 5 0	3,62,841 30	11,633 11 0	227 0 0	1,58,890 0 0	22,266	2,477	24,743
COMPARISON.									
Total for corresponding week of previous year ...	29,259½	5,194 0 10	5,019 10	182 8 0	3 0 0	5,379 8 10	915	53	968
Per mile of railway corresponding week of previous year ...	.....	233 7 0	.....	8 3 3	0 2 2	241 12 5	.....	.....	.....
Total to corresponding date of previous year ...	570,923	1,49,696 15 10	2,27,061 0	8,860 7 0	195 0 9	1,58,752 7 7	22,982	1,504	24,486

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,380	243	22½	5,654	263	22½	77,587	291	22½	77,626	291	39	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 14th June 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	139,680	65,420 0 0	4,12,270 0	76,010 0 0	15,610 0 0	1,57,340 0 0	22,894	31,527	54,421
Or per mile of railway ...	182	85 0 0	538 0	99 0 0	13 0 0	187 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	3,762,951	17,30,429 0 0	*1,29,29,388 0	23,02,996 0 0	4,34,787 0 0	*44,68,212 0 0	516,471	704,272	1,220,743
Total for 24 weeks ...	3,902,631	17,95,849 0 0	1,33,41,658 0	23,79,006 0 0	4,50,697 0 0	46,25,552 0 0	539,365	735,799	1,275,164
COMPARISON.									
Total for corresponding week of previous year ...	3,155,339	72,368 0 0	5,42,109 0	73,737 0 0	16,911 0 0	1,63,016 0 0	21,652	22,863	44,51
Per mile of railway corresponding period of previous year ...	231	198 0 0	805 0	110 0 0	14 0 0	222 0 0	.....	.....	.....
Total to corresponding date of previous year ...	3,556,351	17,52,660 0 0	1,21,95,666 0	19,91,942 0 0	4,45,679 0 0	41,90,281 0 0	516,211	577,146	1,093,357

* Audited up to week ending 3rd May 1890.

† Excluding steamer earnings.

a Audited up to week ending 12th April 1890.

b Due to Dushohara bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 15TH JUNE 1889.			RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
673	1,63,016	242	767	1,57,340	205	673	17,84,773	241	766	*18,80,545	226	96,772	.....

* Audited up to week ending 3rd May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 14th June 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	26,330	10,040 0 0	31,470 0	2,360 0 0	220 0 0	12,620 0 0	3,627	2,045	5,672
Or per mile of railway ...	211	80 0 0	252 0	19 0 0	2 0 0	101 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	*658,250	2,23,544 0 0	*11,75,767 0	68,793 0 0	1,429 0 0	*2,93,766 0 0	81,566	46,666	128,232
Total for 24 weeks ...	684,630	2,33,584 0 0	1,207,237 0	71,153 0 0	1,649 0 0	3,06,396 0 0	85,193	48,711	133,904
COMPARISON.									
Total for corresponding week of previous year ...	35,424	16,973 0 0	53,150 0	2,791 0 0	41 0 0	19,805 0 0	3,821	1,937	5,758
Per mile of railway corresponding period of previous year ...	283	136 0 0	425 0	22 0 0	.....	158 0 0	.....	.....	.....
Total to corresponding date of previous year ...	708,600	2,51,881 0 0	15,39,057 0	77,713 0 0	5,002 0 0	3,34,596 0 0	88,328	46,729	135,057

* Audited up to week ending 3rd May 1890.

a Due to Dushohara bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 15TH JUNE 1889.			RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	10,805	168	125	12,620	101	125	1,60,865	114	125	*1,35,927	99	.....	20,928

* Audited up to week ending 3rd May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 14th June 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,860	4,480 0 0	16,836 0	990 0 0	100 0 0	5,570 0 0	2,414	690	3,104
Or per mile of railway ...	173	52 0 0	126 0	12 0 0	1 0 0	65 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	593,298	1,20,704 0 0	*5,31,063 0	50,228 0 0	3,731 0 0	*1,74,723 0 0	54,795	17,998	72,793
Total for 24 weeks ...	408,153	1,25,244 0 0	5,41,893 0	51,218 0 0	3,831 0 0	1,80,293 0 0	57,309	18,688	75,997
COMPARISON.									
Total for corresponding period of previous year ...	13,777	4,010 0 0	64,503 0	2,921 0 0	651 0 0	7,582 0 0	2,479	625	3,104
Per mile of railway corresponding period of previous year ...	160	47 0 0	750 0	34 0 0	7 0 0	88 0 0	.....	.....	.....
Total to corresponding date of previous year ...	367,290	1,11,400 0 0	3,75,717 0	26,034 0 0	4,549 0 0	1,41,983 0 0	59,011	18,832	77,843

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 15TH JUNE 1889.			RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	7,582	88	86	5,570	65	86	59,326	63	86	*67,008	71	7,682	.....

* Audited up to week ending 3rd May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 14th June 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,922	1,015 0 0	12,327 0	759 0 0	19 0 0	1,791 0 0	509	254	763
Or per mile of railway ...	107	37 0 0	422 0	28 0 0	1 0 0	66 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	75,410	27,067 0 0	2,71,072 0	16,428 0 0	2,192 0 0	46,287 0 0	11,544	10,717	22,261
Total for 23 weeks ...	78,332	28,680 0 0	2,83,989 0	17,187 0 0	2,211 0 0	48,078 0 0	12,053	10,971	23,024
COMPARISON.									
Total for corresponding week of previous year ...	5,604	2,271 0 0	11,900 0	746 0 0	21 0 0	3,038 0 0	727	309	1,036
Per mile of railway corresponding week of previous year ...	206	83 0 0	437 0	27 0 0	1 0 0	111 0 0	.....	.....	.....
Total to corresponding date of previous year ...	82,244	31,285 0 0	2,62,337 0	16,309 0 0	2,074 0 0	49,608 0 0	12,452	10,189	22,641

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 15TH JUNE 1889.			RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1889-90.	Total decrease in 1889-90.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	3,038	111	27½	1,791	66	27½	21,428	71	27½	19,265	65	.....	2,003

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 14th June 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	41,977	15,358 0 0	2,19,168 0	24,515 0 0	2,624 0 0	42,497 0 0	4,933	8,805	13,738
Or per mile of railway ...	154	56 0 0	803 0	90 0 0	3 0 0	149 3 0*	.....	.....	.....
For previous 22 weeks of half-year ...	1,053,504	4,24,850 0 0	56,81,718 0	6,52,105 0 0	73,005 0 0	11,50,018 0 0	116,936	216,840	330,776
Total for 23 weeks ...	1,095,481	4,40,208 0 0	59,00,886 0	6,76,678 0 0	75,629 0 0	11,92,515 0 0	121,890	222,645	344,534
COMPARISON.									
Total for corresponding week of previous year ...	46,288	16,730 0 0	2,48,203 0	19,508 0 0	5,353 0 0	42,061 0 0	4,916	5,665	10,481
Per mile of railway corresponding week of previous year ...	170	61 0 0	909 0	73 0 0	3 0 0	137 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	1,038,548	3,80,183 0 0	38,17,997 0	3,63,957 0 0	94,880 0 0	8,48,065 0 0	124,970	135,143	260,112

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 15TH JUNE 1889.			RECEIPTS FOR WEEK ENDING 14TH JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 14TH JUNE 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	42,001	154	273	42,497	156	273	4,35,626	145	273	4,93,295	164	57,669	.....

[REGISTERED No. 29.]

No. 28 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JULY 9, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
RETURNS of Joint Stock Companies for the year 1889-90 ...	1432	RESULTS of the Barometrical and Thermometrical Obser-	
Rainfall, Weather, and State and Prospects of the Crops ...	1437	vations taken at the Meteorological Office, Chow-	
Prices-current (<i>retail</i>) of Food-grains, Firewood and		ringhee, from 29th June to 5th July 1890 ...	1456
Salt in the Head-quarter Station Bazaars of the districts		Statement showing the Results of the Registration of	
of Bengal on the 30th June 1890 ...	1440	Births and Deaths in the Principal Municipalities in	
Statement showing the stocks of rice in and around Calcutta	1446	Bengal during the week ending 21st June 1890 ...	1457
Abstract of the results of Meteorological Observations		South-Western Circle—Nuddea Rivers during the month	
taken at the Alipore Observatory in the month of		of May 1890 ...	1461
June 1890 ...	1447	South-Western Circle—Orissa Coast Canal System during	
Meteorological Report of the Province of Bengal for the		the month of May 1890 ...	1462
week ending Friday the 4th of July 1890 ...	1448	South-Western Circle—Calcutta and Eastern Canals during	
Statement of Rainfall in Bengal for the week ending		the month of May 1890 ...	1463
Friday (8 a.m.), the 4th of July 1890 ...	1450	Circular and Eastern Canals for the week ending 5th	
Results of the Meteorological Observations taken at the		July 1890 ...	1466
Alipore Observatory from 29th June to 5th July 1890 ...	1455	Bengal Central Railway for the month of April 1890 ...	1467
Abstract of the results of the Barometric and Thermo-		Tirhoot State Railway for the month of May 1890 ...	1468
metric Observations taken at 10 A.M. at the Meteoro-		Weekly Return of Traffic Receipts on Indian Railways ...	1469
logical Office, Chowringhee, in the month of June 1890 ...	1458		

RETURNS OF JOINT STOCK COMPANIES FOR THE YEAR 1889-90.

No. I.

Statement showing the name and number on the Register borne by each Joint Stock Company registered in the Calcutta Registry Office, with its object, nominal capital and date of registration, during the year ending 31st March 1890.

Number on this list.	Number borne by each Company in the general Register.	NAMES OF COMPANIES.	Object of each Company.	Date of registration.	Nominal Capital.	REMARKS.
1	574	Jalpaiguri Banking and Trading Corporation, Ltd.	Banking business	23rd May 1889...	Rs. 1,00,000	
2	576	New Chumta Tea Co., Ltd. ...	To cultivate tea	24th June " ...	1,00,000	
3	577	Indian Imperial Marine Insurance Co., Ltd.	Insurance business	3rd July " ...	50,00,000	
4	579	Hantapara Tea Co., Ltd. ...	To cultivate tea	6th Aug. " ...	2,00,000	
5	580	Anjuman Tea Co., Ltd. ...	Ditto ditto	15th " " ...	1,50,000	
6	581	Patna Tramway Co., Ltd. ...	To construct tramway in Patna...	28th " " ...	2,00,000	
7	582	Chengmari Tea Co., Ltd. ...	To cultivate tea	25th Sept. " ...	5,00,000	
8	583	Sissi Saw Mills and Trading Co., Ltd.	Saw mill business	22nd Oct. " ...	2,00,000	
9	584	Jessop & Co., Ltd. ...	Brass and Iron founders and Mechanical Engineers.	7th Nov. " ...	9,00,000	
10	585	Seehpore Jute Manufacturing Co., Ltd.	Spinning and weaving jute ...	28th " " ...	10,00,000	
11	586	Mohesh Chunder Land Reclamation and Agricultural Improvement Co., Ltd.	Promoting agricultural improvement, &c.	3rd Dec. " ...	2,50,000	
12	587	Calcutta Flour Mills Co., Ltd. ...	Milling and preparing flour ...	18th " " ...	1,50,000	
13	588	European and Anglo-Indian Defence Association	Association not for profit ...	20th " " ...	Limited by guarantee.	
14	590	Bengal Paper Mill Co., Ltd.	Manufacturing paper, &c....	28th Jan. 1890...	7,00,000	
15	591	Rajshahi Dhenes Co., Ltd. ...	General trade	4th Feb. " ...	20,000	
16	592	Damuda Coal Co., Ltd. ...	Mining coal	8th " " ...	3,24,000	
17	593	Pioneer Glass Manufacturing Co., Ltd.	Manufacturing glass	2nd " " ...	1,50,000	
18	594	Calcutta Skating and Amusement Club, Ltd.	Amusements	24th " " ...	1,00,000	
19	595	Nigali Tea Co., Ltd. ...	To cultivate tea	25th " " ...	1,00,000	
20	596	Kumlat Tea Association, Ltd. ...	To cultivate tea, &c. ...	21st March " ...	1,60,000	
21	597	Bankipore Loan Office, Ltd.	Banking business	24th " " ...	50,000	
22	598	Indian Patent Stone Co., Ltd. ...	Manufacturing patent stone ...	26th " " ...	57,000	
					84,11,000	

No. II.

Statement showing the Register numbers and names of Companies that have increased their Capital during the year ending 31st March 1890.

Number on this list.	Register number borne by each Company.	Date of registration.	Amount of original capital.	NAMES OF COMPANIES.	Date of increase.	Amount of increased capital.	REMARKS.
1	492	18th Feb. 1884 ...	Rs. 16,50,000	Tarkessur Railway Co., Ltd. ...	29th April 1889 ...	Rs. 17,50,000	
2	439	30th May 1882 ...	8,000	Northern Bengal Railway Co-operative Supply Association, Ltd. ...	14th May " ...	11,400	
3	533	29th July 1886 ...	1,20,000	Chalouni Tea Co., Ltd. ...	18th " " ...	2,00,000	
4	519	5th Jan. ...	3,50,000	Chulsa Tea Co. (Deoars), Ltd. ...	30th July " ...	4,00,000	
5	432	21st Mar. 1882 ...	5,00,000	Tingri Tea Co., Ltd. ...	2nd Aug. " ...	5,25,000	
6	605	3rd Jan. 1885 ...	1,50,000	Manabharie Tea Co., Ltd. ...	24th March 1890 ...	2,00,000	
			27,78,000				30,86,400

No. III.

Statement showing the Register numbers and names of Companies that have commenced winding up, have been finally dissolved or are otherwise defunct, with their capital, dates of registration, winding up or final dissolution, during the year ending 31st March 1890.

Number on this list.	Register number borne by each Company.	NAMES OF COMPANIES.	Nominal capital.	Date of registration.	Date of winding up.	Date of final dissolution.	Date on which written off defunct.	REMARKS.
1	412	Goomtee Tea Co., Ltd. ...	Rs. 80,000	8th Mar. 1881	28th Feb. 1889	13th May 1889		
2	392	Sungoo River Tea Co., Ltd.	2,00,000	13th Nov. 1874	29th Dec. 1887	10th May 1889		
3	557	Behar Co-operative Stores Association, Ltd.	1,00,000	15th June 1888	25th June 1889	.....	
4	203	Burmah Steam Tug Co., Ltd.	3,00,000	12th July 1866	25th June 1889	.....	
5	506	Shumshernugger Tea Co., Ltd.	2,50,000	23rd Jan. 1885	7th Feb. 1888	18th July 1889		
6	490	Hapjan Tea Association, Ltd.	70,000	5th Mar. 1880	7th Nov. 1889	29th Aug. 1889		
7	67	Kunchanpore Tea Co., Ltd.	5,00,000	18th Nov. 1867	30th Aug. 1889	.....	
8	529	Amicable Insurance Office, Ltd.	10,00,000	26th May 1886	14th Oct. 1889	.....	
9	503	Kerosine Oil Co., Ltd. ...	10,000	9th Dec. 1884	15th Oct. 1889	.....	
10	490	Deoghur Mining Co., Ltd.	9,45,000	18th Jan. 1884	17th April 1888	15th Oct. 1889		
11	272	Seehpore Jute Manufacturing Co., Ltd.	15,00,000	1st Dec. 1873	25th Nov. 1889	.....	
12	235	Majagram Tea Co., Ltd. ...	2,00,000	27th Jan. 1872	10th Jan. 1890	.....	
13	585	Oriental Baking Co., Ltd....	1,00,000	7th Dec. 1888	24th Jan. 1890	.....	
14	554	Indian Patent Stone Co., Ltd.	57,000	8th May 1888	14th Mar. 1890	.....	
			37,67,000					

No. IV.

Statement showing the register number and name of Company that has reduced its capital during the year ending 31st March 1890.

Number on this list.	Register number borne by Company.	Date of registration.	Amount of original capital.	NAME OF THE COMPANY.	Date of reduction.	Amount of capital reduced.	REMARKS.
1	307	18th December 1874	Rs. 20,00,000	Dunbar Cotton Mill, Ltd. ...	29th July 1889 ...	Rs. 14,00,000	High Court order dated 22nd July 1889.

No. VI.

Statement showing the numbers and names of existing Companies working in Bengal for the year ending 31st March 1890.

BANKING AND INSURANCE COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
1	1	Hong-Kong and Shanghai Banking Corporation ...	7th April 1869	1,68,75,000	1,68,75,000	31st Dec. 1889	
2	2	Furrupore Loan Office, Ltd. ...	13th June 1870	20,000	18,800	12th April	
3	3	Tipperah Loan Office, Ltd. ...	25th March 1871	1,00,000	88,720	12th "	
4	4	Mymensingh Loan Office, Ltd. ...	23rd Sept. 1873	1,00,000	66,990	12th "	
5	5	Barisal Loan Office, Ltd. ...	17th Nov. "	20,000	18,000	12th March "	
6	6	Bogra Loan Office, Ltd. ...	5th "	20,000	11,500*	12th April "	
7	7	Nasirabad Loan Office, Ltd. ...	26th Sept. 1875	50,000	24,180	13th "	
8	8	Jessore Loan Co., Ltd. ...	12th April 1870	1,20,000	1,00,000	31st March "	
9	9	Saharsapur Loan Office, Ltd. ...	26th June "	20,000	15,170	12th April "	
10	10	Moonsheegunge Loan Office, Ltd. ...	29th July "	20,000	12,010	14th Dec. "	
11	11	Hindoo Union Bank, Ltd. ...	26th Feb. 1880	20,000	1,530	31st "	
12	12	Dacca Loan Office, Ltd. ...	29th March "	2,00,000	1,39,060	12th April "	
13	13	Sylhet Loan Co., Ltd. ...	13th August 1881	20,000	6,380	15th July "	
14	14	Chota Nagpore Banking Association, Ltd. ...	21st Feb. 1883	20,000	12,580	31st Dec. "	
15	15	Pubna Bank, Ltd. ...	8th Aug. "	20,000	15,090	12th April "	
16	16	Kisoregunge Loan Office, Ltd. ...	19th Sept. "	50,000	32,370	12th "	
17	17	Noakhali Loan Office, Ltd. ...	2nd March 1885	20,000	20,000	12th April "	
18	18	Tangail Loan Office, Ltd. ...	12th Feb. 1887	50,000	20,000	12th April "	
19	19	Ghatil Sanmilani Dhan Bhandar, Co., Ltd. ...	27th July "	20,000	11,820	12th "	
20	20	Kurigram Loan Office, Ltd. ...	4th Aug. "	10,000	7,120	12th Jan. 1890	
21	21	Khulna Loan Co., Ltd. ...	15th Sept. "	15,000	14,872	31st Dec. 1889	
22	22	Digh Pait Milit Dhan Bhandar Co., Ltd. ...	2nd May 1888	20,000	.....	.....
23	23	Jalpaiguri Banking and Trading Corporation, Ltd. ...	23rd " 1889	1,00,000	.....	.....
24	24	Bankipore Loan Office, Ltd. ...	24th March 1890	50,000	.....	.....
25	25	Triton Insurance Co., Ltd. ...	5th Sept. 1887	22,50,000	4,23,450	31st Dec. 1888	
26	26	Reliance Marine Insurance Office, Ltd. ...	9th Nov. "	20,00,000	51,000	31st " 1889	
27	27	Indian Imperial Marine Insurance Co., Ltd. ...	3rd July 1889	30,00,000	.....	.....
				2,52,10,000	1,70,65,552		

TRADING COMPANIES.

				Rs.	Rs.		
28	1	Darjeeling-Himalayan Railway Co., Ltd. ...	10th April 1870	17,50,000	17,50,000	31st Dec. 1888	
29	2	Deoghur Railway Co., Ltd. ...	36th Jan. 1882	2,75,000	2,75,000	31st "	
30	3	Tarkessur Railway Co., Ltd. ...	18th Feb. 1884	17,50,000	16,50,000	31st "	
31	4	Rangoon Steam Tramway Co., Ltd. ...	15th " 1889	7,50,000	6,00,000	.....
32	5	Patna Tramway Co., Ltd. ...	28th Aug. "	2,00,000	.....	.....
33	6	Assensol E. I. R. Co-operative Society, Ltd. ...	19th Feb. 1873	10,000	10,000	31st Dec. 1888	
34	7	Buxar Co-operative Society, Ltd. ...	25th May "	4,000	4,000	31st " 1889	
35	8	Northern Bengal Railway Co-operative Supply Assn., Ltd. ...	30th " 1892	11,400	11,400	31st " "	
36	9	Assensol Railway Co-operative Ice and Aerated Water Supply Ltd. ...	30th Nov. 1887	16,000	.....	.....
37	10	India General Steam Navigation Co., Ltd. ...	25th Sept. 1858	80,00,000	70,74,400	31st March 1889	
38	11	Orissa Coasting Steam Navigation Co., Ltd. ...	24th Aug. 1882	4,00,000	2,84,075*	31st July "	
39	12	Calcutta Steam Navigation Co., Ltd. ...	8th Nov. "	8,40,000	8,40,000	31st Dec. "	
40	13	Calcutta Landing and Shipping Co., Ltd. ...	7th Aug. 1863	5,00,000	4,20,000	30th April 1888	
41	14	R. Scott Thomson & Co., Ltd. ...	1st April "	5,00,000	4,67,000	31st March 1889	
42	15	Howrah Docking Co., Ltd. ...	15th Sept. "	8,00,000	8,00,000	31st Dec. "	
43	16	Agricultural Phosphates Co., Ltd. ...	18th Dec. 1873	1,00,000	85,000	31st " 1888	
44	17	Narail Trading Co., Ltd. ...	20th March 1879	20,000	6,608	31st " "	
45	18	Pingna Trading Co., Ltd. ...	7th Feb. 1881	1,00,000	50,000	12th April 1889	
46	19	Co-operative Pharmacy Co., Ltd. ...	31st May 1882	50,000	29,273	30th June 1888	
47	20	W. Newman & Co., Ltd. ...	11th Feb. "	3,50,000	3,46,500	30th " 1889	
48	21	Gobra Tannery Co., Ltd. ...	9th Sept. "	1,50,000	1,50,000	31st Dec. 1888	
49	22	Darjeeling and Kurseong Hotel and Trading Co., Ltd. ...	2nd Feb. 1883	2,00,000	2,00,000	31st " "	
50	23	Great Eastern Hotel Wine and General Purveying Co., Ltd. ...	4th " 1886	12,00,000	12,00,000	30th April 1889	
51	24	Raneegunge Cement and Lime Works, Ltd. ...	30th June 1887	3,00,000	2,00,000	31st March "	
52	25	Mafussil Supply Co., Ltd. ...	4th Aug. "	10,000	.....	.....
53	26	Indian Tea Supply Co., Ltd. ...	8th Dec. "	2,00,000	1,00,000	31st Dec. 1888	
54	27	Catholic Book-selling Co., Ltd. ...	17th April 1888	20,000	.....	.....
55	28	H. Dear and Co., Ltd. ...	15th June "	6,00,000	6,00,000	31st Oct. 1888	
56	29	Behar Commercial Co., Ltd. ...	29th Nov. "	20,000	.....	.....
57	30	Chota Nagpore Carryng Co., Ltd. ...	26th Feb. 1889	20,000	.....	.....
58	31	Kayasta Trading Co., Ltd. ...	5th March "	20,000	4,410	11th July 1889	
59	32	Jessop and Co., Ltd. ...	7th Nov. "	20,000	.....	.....
60	33	Rajshahi Dhanes Co., Ltd. ...	4th Feb. 1890	20,000	.....	.....
61	34	Calcutt Skating and Amusement Club, Ltd. ...	24th " "	1,00,000	.....	.....
				2,02,86,400	1,71,59,586		

*By oversight shown as 2,84,000 last year.

MILLS AND PRESSES.

Serial number.	Number.	NAMES OF COMPANIES.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
62	1	Goosery Cotton Mills Co., Ltd.	9th Oct. 1863	15,00,000	15,00,000	31st Dec. 1889	
63	2	Bowmah Cotton Mills Co., Ltd.	7th Aug. 1872	18,00,000	18,00,000	28th Feb. "	
64	3	Dunbar Cotton Mill Co., Ltd.	18th Dec. 1874	14,00,000	9,29,950	31st Dec. "	
65	4	Empress of India Cotton Mills Co., Ltd.	19th April 1877	8,75,000	8,75,000	30th June "	
66	5	Calcutta Cotton Mills Co., Ltd.	5th Jan. 1889	5,00,000	4,53,000	31st Dec. "	
67	6	Rudge and Jute Mills Co., Ltd.	21st April 1878	18,00,000	14,40,000	30th April "	
68	7	Fort Gloster Jute Manufacturing Co., Ltd.	6th May 1889	14,00,000	14,00,000	31st May "	
69	8	Seebpore Jute Manufacturing Co., Ltd.	28th Nov. 1889	10,00,000	10,00,000	31st Dec. "	
70	9	Howrah Mills Co., Ltd.	14th July 1874	17,50,000	1,50,000	31st "	
71	10	Gourypore Co., Ltd.	12th April 1876	12,00,000	12,00,000	31st "	
72	11	Kamarbatty Co., Ltd.	28th Sept. 1877	8,00,000	4,00,000	31st "	
73	12	Union Jute Co., Ltd.	5th Oct. 1880	12,00,000	9,00,000	31st "	
74	13	Hooghly Mills Co., Ltd.	21st Sept. 1882	13,50,000	10,50,000	31st "	
75	14	Kankarrah Co., Ltd.	30th Dec. 1881	14,00,000	8,26,000	31st "	
76	15	Bengal Silk Co., Ltd.	26th June 1881	3,50,000	3,50,000	31st Oct. "	
77	16	Nasmyth's Patent Press Co., Ltd.	10th Sept. 1897	4,00,000	4,00,000	30th June "	
78	17	Calcutta Hydraulic Press Co., Ltd.	10th April 1873	1,70,000	1,70,000	31st Dec. "	
79	18	Watson's Patent Press Co., Ltd.	25th Feb. 1874	3,00,000	3,00,000	31st "	
80	19	Ramkrishnapore Press Co., Ltd.	23rd April "	1,30,000	1,30,000	30th Sept. "	
81	20	Riverside Press Co. (Watson's Patent), Ltd.	13th July "	3,00,000	2,00,800	31st Dec. "	
82	21	Strand Bank Press Co. (W. P.) Ltd.	24th July "	2,50,000	2,50,000	31st Jan. 1890	
83	22	Chitpore Hydraulic Pressing Co., Ltd.	17th March 1879	4,00,000	4,00,000	31st Dec. 1889	
84	23	Canal Press Co., Ltd.	20th Sept. 1881	2,40,000	2,00,000	31st July "	
85	24	Camperdown Pressing Co., Ltd.	23th July 1882	5,00,000	4,30,000	31st "	
86	25	Agra Pressing Co., Ltd.	30th June 1883	1,55,000	1,45,750	30th June "	
87	26	India Pressing Co., Ltd.	13th Aug. 1882	1,50,000	1,50,000	31st Dec. "	
88	27	Titaghar Paper Mills Co., Ltd.	28th July 1882	9,00,000	8,12,675	30th June "	
89	28	Benzal Paper Mills Co., Ltd.	28th Jan. 1890	7,00,000	.....	.....
90	29	Dehing Saw Mills Co., Ltd.	23rd Feb. 1889	1,00,000	40,700	31st Dec. 1889	
91	30	Sissi Saw Mills and Trading Co., Ltd.	22nd Oct. "	2,00,000	.....	.....
92	31	Calcutta Flour Mills Co., Ltd.	18th Dec. "	1,00,000	.....	.....
93	32	Calcutta Central Press Co., Ltd.	21st April 1865	75,000	70,700	30th April 1889	
				2,34,45,000	1,06,73,575		

PLANTING COMPANIES.

				Rs.	Rs.		
94	1	Bengal Tea Co., Ltd.	23rd Nov. 1859	10,00,000	9,48,320	31st Dec. 1888	
95	2	Balasun Tea Co., Ltd.	21st Feb. 1860	2,00,000	2,00,000	31st "	
96	3	East India Tea Co., Ltd.	7th Aug. 1861	10,00,000	10,00,000	31st "	
97	4	Sylhet Tea Co., Ltd.	18th Dec. "	1,50,000	1,49,633	1st Jan. 1890	
98	5	Ramghur Co., Ltd.	15th May 1862	10,00,000	4,25,000	31st Dec. 1889	
99	6	Soom Tea Co., Ltd.	20th Nov. "	3,00,000	3,00,000	31st "	
100	7	Punkabarie Tea Co., Ltd.	9th March 1863	2,50,000	2,18,342	31st "	
101	8	Dehra Doon Tea Co., Ltd.	31st "	20,00,000	8,78,000	31st "	
102	9	Central Cachar Tea Co., Ltd.	2nd May "	10,00,000	10,00,000	31st "	
103	10	Bishnauth Tea Co., Ltd.	6th "	11,00,000	8,25,000	31st "	
104	11	Eastern Cachar Tea Co., Ltd.	15th July "	7,00,000	7,00,000	31st "	
105	12	Kurseong and Darjeeling Tea Co., Ltd.	12th Dec. "	8,00,000	6,54,500	31st "	
106	13	Durrung Tea Co., Ltd.	4th Jan. 1864	5,00,000	4,65,000	31st "	
107	14	Monacherra Tea Co., Ltd.	30th "	8,00,000	7,29,150	31st "	
108	15	Tukvar Co., Ltd.	26th Feb. "	12,00,000	7,34,300	31st "	
109	16	Moran Tea Co., Ltd.	26th July "	6,00,000	4,80,000	31st "	
110	17	Durrabhar Co., Ltd.	23rd April 1866	60,000	60,000	30th Nov. 1887	
111	18	Kutta Tea Co., Ltd.	24th Jan. 1867	1,00,000	1,00,000	31st Dec. 1888	
112	19	Chandypore Tea Co., Ltd.	8th Aug. "	2,50,000	2,50,000	31st "	
113	20	New Mutual Tea Co., Ltd.	15th "	1,20,000	1,17,750	31st "	
114	21	Arcuttipore Tea Co., Ltd.	19th Jan. 1869	3,00,000	3,00,000	31st "	
115	22	Cuttacherra Co., Ltd.	30th May 1871	2,70,000	2,54,000	31st "	
116	23	Singell Tea Co., Ltd.	15th Nov. "	6,25,000	6,25,000	31st "	
117	24	Indian Terni Tea Co., Ltd.	4th Dec. "	1,50,000	1,50,000	31st "	
118	25	Hoolingore Tea Co., Ltd.	23rd March 1872	4,00,000	4,00,000	31st "	
119	26	Central Terni Tea Co., Ltd.	4th April "	4,00,000	4,00,000	31st "	
120	27	Dessai and Parbutiah Tea Co., Ltd.	15th July "	1,80,000	1,80,000	31st "	
121	28	Cocheela Tea Co., Ltd.	17th Jan. 1873	3,00,000	2,88,675	31st "	
122	29	Hoita Tea Co., Ltd.	27th Feb. "	3,50,000	3,50,000	31st "	
123	30	Kalacherra Tea Co., Ltd.	23th July "	2,75,000	2,75,000	31st "	
124	31	Singbulli and Marimah Tea Co., Ltd.	26th Nov. "	4,00,000	3,00,000	31st "	
125	32	Puttarcha Tea Co., Ltd.	31st Dec. "	2,00,000	2,00,000	31st "	
126	33	Spring Side Tea Co., Ltd.	10th Jan. 1874	1,68,000	1,68,000	31st "	
127	34	Mothola Co., Ltd.	5th March "	1,50,000	1,38,000	31st "	
128	35	Teendarea Co., Ltd.	28th July "	1,35,000	1,35,000	31st "	
129	36	Joonkollee Tea Co., Ltd.	7th Aug. "	80,000	80,000	31st "	
130	37	Burkholia Tea Co., Ltd.	1st Sept. "	2,70,000	2,70,000	31st "	
131	38	Fingling Tea Co., Ltd.	15th "	1,50,000	1,50,000	31st "	
132	39	Phoenix Tea Co. (of Cachar), Ltd.	9th Oct. "	6,25,000	5,35,000	31st "	
133	40	Chota Nagpore Tea Co., Ltd.	27th Nov. "	2,50,000	2,50,000	31st "	
134	41	Lackatoora Tea Co., Ltd.	5th Dec. "	2,25,000	2,25,000	31st "	
135	42	Second Mutual Tea Co., Ltd.	26th Feb. 1873	2,35,500	2,03,000	31st "	
136	43	Mim Tea Co., Ltd.	6th March "	1,00,000	1,59,000	31st "	
137	44	Gellie Tea Co., Ltd.	29th "	5,00,000	4,00,000	31st "	
138	45	Hoolmaree Tea Co., Ltd.	25th "	1,20,000	1,20,000	31st "	
139	46	Sapakati Tea Co., Ltd.	1st May "	88,000	88,000	31st "	
140	47	Rajabarie Tea Co., Ltd.	5th "	2,00,000	2,00,000	31st "	
141	48	Grob Tea Co., Ltd.	21st June "	6,00,000	5,00,000	31st "	
142	49	North-Western Cachar Tea Co., Ltd.	25th Jan. 1876	2,75,000	2,75,000	31st "	
143	50	Runglee Rangliot Tea Co., Ltd.	31st Feb. "	1,40,000	1,40,000	31st "	
144	51	Amluckie Tea Co., Ltd.	25th July "	4,45,500	4,45,700	31st "	
145	52	Cachar Native Joint Stock Co., Ltd.	31st Aug. "	1,00,000	53,675	31st "	
146	53	Teesta Valley Tea Co., Ltd.	20th Nov. "	3,50,000	3,20,000	31st "	
147	54	Dehing Co., Ltd.	5th Jan. 1877	10,00,000	9,00,000	31st "	
148	55	Dhunsiri Tea Co., Ltd.	23rd March "	1,60,000	1,60,000	31st "	
149	56	Good Hope Tea Co., Ltd.	2nd May "	1,15,000	1,00,000	31st "	
150	57	Hotewar Tea Co., Ltd.	16th July "	56,000	56,000	31st "	
151	58	Singtom Tea Co., Ltd.	10th Jan. 1878	1,60,000	1,60,000	31st "	
152	59	Bahadurpore Tea Co., Ltd.	19th March "	20,000	17,639	31st "	
153	60	Hindoo Tea Co., Ltd.	12th July "	35,000	24,500	31st "	
154	61	Loobah Tea Co., Ltd.	27th Sept. "	5,00,000	5,00,000	31st "	
155	62	Longview Tea Co., Ltd.	16th Jan. 1879	3,44,000	3,44,000	31st "	
156	63	Darjeeling Tea and Cinchona Association, Ltd.	16th "	2,00,000	2,00,000	31st "	
157	64	Kettela Tea Co., Ltd.	25th March "	1,50,000	1,50,000	31st "	
158	65	Munjab Tea Co., Ltd.	10th April "	1,50,000	1,50,000	31st "	
159	66	Jalpiruri Tea Co., Ltd.	29th May "	50,000	50,000	31st "	

Serial num- ber.	Number.	NAMES OF COMPANIES.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
				Rs.	Rs.		
160	67	Washabarie Tea Co., Ltd.	8th Aug. 1879	1,50,000	1,50,000	31st Dec. 1889	
161	68	Karnafuli Association, Ltd.	5th Feb. 1880	3,60,000	3,60,000	31st "	1888
162	69	Nahartoli Tea Co., Ltd.	14th "	1,60,000	1,40,500	31st "	"
163	70	Ringtong Tea Co., Ltd.	7th "	3,00,000	2,60,000	31st "	1889
164	71	Sungma Tea Co., Ltd.	30th March "	1,30,000	1,17,000	31st "	"
165	72	Khobong Tea Co., Ltd.	12th April "	3,25,000	3,25,000	31st "	1888
166	73	Chingra Tea Co., Ltd.	27th July "	1,50,000	1,50,000	31st "	"
167	74	Runkamattee Tea Co., Ltd.	15th Feb. 1882	3,50,000	3,50,000	31st "	1889
168	75	Lower Darjeeling Tea Co., Ltd.	24th "	1,10,000	1,10,000	31st "	1888
169	76	Baintbarree Tea Co., Ltd.	14th March "	1,60,000	1,60,000	31st "	"
170	77	Tingri Tea Co., Ltd.	21st "	5,25,000	5,00,000	31st "	"
171	78	Jinglam Tea Co., Ltd.	22nd "	1,60,000	1,60,000	31st "	"
172	79	Ellenbarree Tea Co., Ltd.	25th April "	1,50,000	1,50,000	31st "	1889
173	80	Messai Tea Co., Ltd.	5th July "	2,50,000	2,50,000	30th Nov. 1888	
174	81	Pashok Tea Co., Ltd.	5th Sep. "	2,50,000	2,20,000	31st Dec. "	
175	82	Northern Bengal Tea Corporation, Ltd.	28th "	1,00,000	85,400	31st "	1889
176	83	Gurjang Jhora Tea Co., Ltd.	2nd Dec. "	50,000	50,000	31st "	1888
177	84	Phoolbarree Tea Co., Ltd.	29th "	5,12,000	5,12,000	31st "	"
178	85	Sagrakote Tea Co., Ltd.	17th Feb. 1883	4,00,000	4,00,000	31st "	1889
179	86	Baintgoore Tea Co. (Dooars), Ltd.	19th "	1,50,000	1,50,000	31st "	"
180	87	Needcom Tea Co., Ltd.	1st March "	3,00,000	3,00,000	31st "	"
181	88	Bor Phukhuri Tea Co., Ltd.	11th July "	1,50,000	1,50,000	31st "	1888
182	89	Gyabarie Tea Co., Ltd.	12th "	2,00,000	1,99,775	31st "	"
183	90	Second Falodhi Tea Co., Ltd.	12th "	2,00,000	2,00,000	31st "	"
184	91	Mohurkong Tea Co., Ltd.	9th Aug. "	1,60,000	1,60,000	31st "	1889
185	92	Barong Tea Co., Ltd.	28th Nov. "	1,50,000	1,45,800	31st "	1888
186	93	Matelli Tea Co., Ltd.	27th March 1884	2,00,000	2,00,000	31st "	1889
187	94	Kaliti Tea Co., Ltd.	28th May "	80,000	80,000	31st "	1888
188	95	Selim Tea Co., Ltd.	18th July "	15,00,000	9,50,500	31st "	"
189	96	Tezporo and Gogra Tea Co., Ltd.	19th "	6,50,000	5,98,800	31st "	1889
190	97	Iringmarah Tea Co., Ltd.	14th Aug. 1884	1,60,000	1,60,000	31st "	1888
191	98	Manabbarree Tea Co., Ltd.	3rd Jan. 1885	2,00,000	1,50,000	31st "	1889
192	99	Nagadhoh Tea Co., Ltd.	10th Feb. "	1,75,000	1,75,000	31st "	1888
193	100	Hope Town Tea Co., Ltd.	23rd "	1,00,000	1,00,000	31st "	"
194	101	Hope Tea Co., Ltd.	21st March "	3,60,000	3,60,000	31st "	1889
195	102	Arya Tea Co., Ltd.	16th May "	36,575	31,586	31st "	"
196	103	New Cinatollah Tea Co., Ltd.	26th "	10,000	10,000	31st "	1888
197	104	Mandakata Tea Co., Ltd.	22nd Dec. "	2,00,000	2,00,000	31st "	"
198	105	Chincorie Tea Co., Ltd.	22nd "	2,00,000	2,00,000	31st "	"
199	106	Kilcott Tea Co., Ltd.	29th "	2,00,000	2,00,000	31st "	"
200	107	Chulsa Tea Co. (Dooars), Ltd.	5th Jan. 1886	4,00,000	4,00,000	31st "	1889
201	108	Zurantee Tea Co. (Dooars), Ltd.	5th "	1,60,000	1,60,000	31st "	"
202	109	Kallenugger and Khoreel Tea Co., Ltd.	16th "	3,00,000	3,00,000	31st "	1888
203	110	Barnockburn Tea Co., Ltd.	26th Feb. "	2,00,000	2,00,000	31st "	1889
204	111	Jaipur Tea Estate, Ltd.	18th March "	2,00,000	2,00,000	31st "	1888
205	112	Shakomato Tea Co., Ltd.	26th June "	2,50,000	2,50,000	31st "	"
206	113	Single Tea Co., Ltd.	8th July "	12,00,000	12,00,000	31st "	"
207	114	Chapaguri Tea Co., Ltd.	12th "	1,50,000	1,50,000	31st "	"
208	115	Chalouni Tea Co., Ltd.	29th "	2,00,000	2,00,000	31st "	1889
209	116	Jetinga Valley Tea Co., Ltd.	26th Feb. 1888	3,00,000	3,00,000	31st "	"
210	117	Okayri Tea Co., Ltd.	5th June "	2,00,000	59,000	31st "	1888
211	118	New Glencoe Tea Co., Ltd.	17th July "	1,60,000	88,000	31st "	1889
212	119	Carron Tea Co., Ltd.	2nd Aug. "	1,50,000	97,500	31st "	"
213	120	Nagassuree Tea Co., Ltd.	23rd "	2,40,000	2,40,000	31st "	"
214	121	Gangaram Tea Co., Ltd.	27th Sept. "	1,00,000	67,500	31st "	"
215	122	Kamai Tea Co., Ltd.	7th Nov. "	2,40,000	80,000	31st "	"
216	123	Haldibari Tea Association, Ltd.	27th March 1889	5,00,000	.....	.....	"
217	124	Sath Bhaia Tea Co., Ltd.	27th "	1,00,000	.....	.....	"
218	125	New Chumta Tea Co., Ltd.	24th June "	1,00,000	.....	.....	"
219	126	Hantapara Tea Co., Ltd.	6th Aug. "	2,00,000	.....	.....	"
220	127	Ajuman Tea Co., Ltd.	15th "	1,50,000	.....	.....	"
221	128	Chengmari Tea Co., Ltd.	25th Sept. "	5,00,000	.....	.....	"
222	129	Nigali Tea Co., Ltd.	25th Feb. 1890	1,00,000	.....	.....	"
223	130	Kumlai Tea Association, Ltd.	21st March "	1,60,000	.....	.....	"
224	131	Sylhet Cultivating Co., Ltd.	29th June 1875	20,000	17,275	12th April 1887	
				4,12,03,375	3,46,64,120		

MINING COMPANIES.

				Rs.	Rs.		
225	1	Bengal Coal Co., Ltd.	24th July 1858	24,00,000	24,00,000	31st Oct. 1888	
226	2	Equitable Coal Co., Ltd.	1st Aug. 1863	8,00,000	8,00,000	31st Dec. 1889	
227	3	Raneegunge Coal Association, Ltd.	8th April 1873	9,00,000	8,25,000	31st March "	
228	4	New Beerbhoom Coal Co., Ltd.	16th May "	7,20,000	7,20,000	31st Oct. "	
229	5	Burrakur Coal Co., Ltd.	19th June 1875	1,50,000	1,50,000	31st May "	
230	6	Alipore Coal Co., Ltd.	3rd March 1882	3,00,000	3,60,000	30th Nov. "	
231	7	Sherghur Co., Ltd.	14th Dec. 1886	10,000	10,000	31st Dec. 1888	
232	8	Damuda Coal Co., Ltd.	8th Feb. 1890	3,24,000	.....	.....
233	9	Rajmahal Stone Co., Ltd.	30th June 1876	2,50,000	2,50,000	31st Dec. 1888	
234	10	Bengal Stone Co., Ltd.	15th Feb. 1879	80,000	80,000	31st " 1889	
235	11	Indian Patent Stone Co., Ltd.	26th March 1890	57,000	.....	.....
236	12	Arakan Petroleum Oil Co., Ltd.	14th July 1883	4,00,000	5,96,830	31st Dec. 1888	
				63,91,000	59,61,830		

ICE MANUFACTURING COMPANIES.

				Rs.	Rs.		
237	1	Bengal Ice Manufacturing Co., Ltd.	9th July 1878	5,00,000	4,95,000	31st Dec. 1889	
238	2	Jamalpur Ice Manufacturing Co., Ltd.	28th May 1879	10,000	7,120	31st " 1888	
239	3	Crystal Ice Supply Co., Ltd.	14th Aug. 1883	2,00,000	2,00,000	31st " 1889	
				7,10,000	7,02,120		

SUGAR MANUFACTURING COMPANY.

				Rs.	Rs.		
240	1	Carew and Co., Ltd.	11th June 1875	10,00,000	10,00,000	31st Dec. 1889	

OTHER COMPANIES.

Serial number.	Number.	NAMES OF COMPANIES.	Date of registration.	Nominal capital.	Paid-up capital.	Date of last balance sheet filed.	REMARKS.
241	1	Kanknarrah Lime Factory Co., Ltd. ...	6th June 1879	Rs. 10,000	Rs. 9,320	30th June 1889	
242	2	Bengal Telephone Co., Ltd. ...	14th March 1883	10,00,000	8,80,000	31st Dec. "	
243	3	Goyana Boat Co., Ltd. ...	1st July 1885	20,000	.....	.....
244	4	Bengal Science and Art Union Ltd. ...	5th Aug. 1887	1,50,000	6,140	30th April 1889	
245	5	Mohes Chunder Land Reclamation, & Agricultural Improvement Co., Ltd. ...	3rd Dec. 1889	2,50,000	.....	.....
246	6	Pioneer Glass Manufacturing Co., Ltd. ...	22nd Feb. 1890	1,50,000	.....	.....
247	7	East India Trade and Outfit Co., Ltd. ...	16th July 1887	.....	.....	.....	Guaranteed.
248	8	European and Anglo-Indian Defence Association ...	20th Dec. 1889	.....	.....	.....	Guaranteed.
				15,80,000	8,95,460		

NATURE OF COMPANIES.			Number.	Nominal capital.	Paid-up capital.
				Rs.	Rs.
I.—Banking and Insurance Companies	...	...	27	2,50,000	1,79,65,552
II.—Trading Companies	...	...	34	2,02,86,400	1,71,59,588
III.—Mills and Presses	...	...	32	2,34,45,000	1,96,73,575
IV.—Planting Companies	...	...	131	4,12,03,575	3,46,64,120
V.—Mining Companies	...	...	12	63,91,000	59,01,330
VI.—Ice Manufacturing Companies	...	...	3	7,10,000	7,02,120
VII.—Sugar Manufacturing Companies	...	...	1	16,00,000	16,00,000
VIII.—Other Companies	...	...	8	15,80,000	8,95,460
Total			248	12,04,25,975	9,85,62,243

P. GHOSHA,

Registrar of Companies under Act VI of 1882.

CALCUTTA,

The 29th April 1890.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 5th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
BURDWAN DIVN.	Western Districts.		
	1 Burdwan July 5, '90	0.05	Weather—cloudy and hot. Transplanting of <i>aus</i> and <i>amun</i> going on. Prospects fair. Prices of common rice:—
	Culna ...	0.44	
	Cutwa ...	2.22	
	Ranigunge ...	1.44	
			Srs. Burdwan ... 17 Culna ... 18 Cutwa ... 14½ Ranigunge ... 15½ } per rupee.
	2 Bankoora „ 5, '90	1.50	Weather—clear and seasonable. Transplanting of early rice (<i>aus</i> , <i>kelas</i> , and <i>noali</i>) progressing vigorously, and that of <i>haimanti</i> begun in places. Sugarcane and other standing crops thriving. Common rice sells at 17½ seers per rupee at Sudder and 17 seers at Bishenpore.
	3 Birbhum „ 5, '90	1.36	Weather—seasonable. Sowing not yet completed, but going on under favourable circumstances. Price of rice 16 to 20 seers per rupee.
	Rampore Haut ...	1.45	
	4 Midnapur „ 5, '90	2.08	Weather—rainy and cloudy. Paddy still being sown and transplantation begun in some parts. Indigo and mulberry doing well. Prices of common rice:—
			Srs. Sudder ... 15 Contai ... 18 Tumlook ... 15 Ghatal ... 16 } per rupee.
	5 Hooghly „ 5, '90	0.51	Weather—stormy. All crops doing well. Prices of common rice:—
	Serampore ...	2.45	
	Jehanabad ...	1.92	
			Srs. Sudder ... 13½ Serampore ... 16 Jehanabad ... 16 } per rupee.
	Howrah „ 5, '90	0.87	Weather—cloudy with occasional showers. <i>Aus</i> and <i>amun</i> plants, jute, and sugarcane doing well. Some paddy seedlings on low lands damaged by excessive water. Price of coarse rice 14 to 15 seers per rupee.
	Uluberia ...	1.97	
PRESIDENCY DIVN.	Central Districts.		
	6 24-Parghs. July 5, '90	0.29	Weather—hot and cloudy with occasional showers. Ploughing continues and transplantation of <i>amun</i> proceeding. Prospects favourable. Price of rice stationary.
	7 Nuddea „ 5, '90	0.58	Weather—seasonable. Prospects of crops on the ground continue to be good. <i>Aus</i> and jute crops on chur lands in the Kushtea subdivision are being damaged by the rise of the rivers.
	Kushtea ...	0.61	
	Meherpore ...	1.08	
	Chuadanga ...	1.24	
	Ranaghat ...	0.70	
	8 Khoolna „ 5, '90	1.10	Weather—rainy. Prospects and condition of all crops continue good.
	Bagirhat ...	1.15	
	Satkhira ...	1.09	
	9 Jessore „ 5, '90	1.10	Weather—cloudy and rainy. Prospects generally good. Some damage apprehended in Narail from sudden rise of rivers.
	Narail ...	3.01	
	Bongong ...	0.30	
	10 Moorshedabad „ 5, '90	0.83	Weather—hot and cloudy. More rain wanted. A little damage done by overflow of the rivers, which are very high for this time. Prospects otherwise good.
	11 Dinagepur „ 5, '90	0.48	Weather—variable with occasional rain. Transplanting of <i>haimanti</i> paddy in progress. Prospects of standing crops good. Price of rice stationary.
	Thakurgaon ...	5.28	
	RAJSHAHYE DIVN.	12 Rajshahye „ 5, '90	Figures not given	Weather—gloomy and sultry. Jute, aus, and amun all flourishing. Rain has done much good to standing crops. More rain wanted.
Natore ...		2.40	
Nowgong ...		1.52	
13 Rungpur „ 5, '90		1.51	Weather—warm and close with rain and sunshine alternately. Prospects of crops generally good. Some damage to <i>kaon</i> and paddy on chur lands by floods reported from Kurigram. Harvesting of <i>aus</i> in full swing. Transplanting of <i>amun</i> continues.
Kurigram ...		0.63	
Gaibanda ...		2.59	
Nilphamari ...		3.74	
14 Bogra „ 5, '90		2.77	Weather—seasonable. <i>Aus</i> crop forward, and harvest has begun in a few places with good outturn. <i>Aus</i> has been sown over about the normal area. Cutting and steeping of jute have also begun, and a bumper crop is expected. <i>Amun</i> promises well. Common rice selling at 18 and 19 seers per rupee.
Sherpur ...		1.05	
Nowkhilla ...		0.56	
15 Pubna „ 5, '90		0.37	Weather—cool and cloudy. Jute is being harvested at Serajgonje. At Sudder jute was sown on 12 annas of the usual area and is expected to yield an outturn of 10 annas. Other crops doing well. Prices stationary.
16 Darjeeling „ 5, '90		5.60	Weather—rainy with occasional breaks. Land is being ploughed for winter rice in the Terai. <i>Bhutta</i> , <i>marua</i> , <i>kagni</i> , <i>bhadoi</i> , <i>haimanti</i> , and Indian-corn progressing favourably.
Siliguri ...		4.72	
17 Julpigoree „ 5, '90		3.25	Weather—cloudy and sultry. <i>Bhadoi</i> paddy and jute doing well except in Mynaguri and Sudder thanas, where they are reported to be bad owing to excessive rain. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca July 5, '90	0.24	Weather—seasonable. Harvesting of <i>aus</i> paddy and jute continues. Prospect of crops good. Price of common rice 12 to 15 seers per rupee.
	19 Farreedpur „ 5, '90	0.67	Weather—rainy with occasional breaks. State and prospects of paddy, sugarcane, and jute fair. <i>Til</i> is being harvested. Rivers rising. Prices of common rice:—
			Srs. Sudder ... 14 Goalundo ... 15 Madaripur ... 14½ } per rupee.
	20 Backergunge „ 5, '90	3.69	Weather—seasonable. Prospect of crops good. Common rice selling at about 13 seers per rupee.
CHITTAGONG Divn.	21 Mymensingh „ 5, '90	0.57	Weather—cloudy and sultry. State of crops continues to be favourable. Coarse rice selling at 13½ seers per rupee.
	22 Chittagong „ 5, '90	0.52	Weather—seasonable. Prospect of <i>pania aus</i> good. Common rice selling at 17 seers per rupee.
	23 Noakholly „ 5, '90	2.06	Weather—rainy and cloudy; very close at times. State of <i>aus</i> crop good. Sowing of <i>amun</i> progressing, and prospects generally good. In Chagalnaya about 3 annas of both <i>amun</i> and <i>aus</i> have suffered from late flood.
	24 Tipperah „ 5, '90	2.62	Weather—cool: seasonable. <i>Aus</i> , <i>amun</i> , and jute doing well. Prices stationary.
	25 Chittagong Hill Tracts. „ 3, '90	1.41	Weather—unsettled; cloudy with light showers. Wind variable. <i>Jum</i> paddy and cotton plants progressing. Lands are being ploughed for late rice. Common rice is being sold at 12 seers 5 chittacks per rupee.
BEHAR.	Hill Tipperah ...	...	Report not received.
PATNA Divn.	26 Patna „ 5, '90	1.42	Weather—hot. Harvesting of <i>cheena</i> completed. Sowing of <i>bhadoi</i> and paddy continues. Transplanting of <i>marua</i> still going on. Prices of food-grains almost stationary.
	Barh ...	4.40	
	Behar ...	0.40	
	Dinapore ...	1.25	
	27 Gya „ 5, '90	0.79	Weather—hot and cloudy. <i>Marua</i> , <i>makai</i> , and paddy are being sown. Sugarcane doing well. Prices of food-grains stationary.
	28 Shahabad „ 5, '90	1.22	Weather—damp and rather hot. Prospects good. <i>Bhadoi</i> sowings proceeding and paddy being transplanted.
	Buxar ...	2.53	
	Sasseram ...	1.22	
	Bhabuah ...	2.48	
	29 Durbhunga „ 5, '90	1.51	Weather—cloudy and occasionally close. <i>Bhadoi</i> cultivation in progress. Prospects very satisfactory. More rain wanted for transplanting paddy and <i>marua</i> seedlings. Indigo manufacture going on. Prices remain almost stationary.
BHAGULPORE Divn.	Somastipur ...	2.07	
	Madhubani ...	3.74	
	30 Mozufferpur „ 5, '90	0.70	The sunshine needed after the heavy and continuous rain of the previous week has been obtained, and the weather has been very favourable for agriculture. Prospects of all crops excellent. Manufacture of indigo proceeding, and a good outturn may be expected.
	Hajipur ...	0.30	
	Sitamarhi ...	1.98	
	31 Sarun „ 5, '90	0.33	Weather—stormy and cloudy; one or two hot days. Prospects of crops very promising. Indigo benefited by rain. Paddy and <i>bhadoi</i> sowings almost completed.
	32 Chumpann Bettiah „ 5, '90	0.71	Weather—sultry and cloudy. Paddy transplantation progressing. <i>Makai</i> and <i>marua</i> being weeded; prospects very good. Indigo <i>makai</i> going on. Prices almost stationary.
	Bettiah ...	2.43	
	33 Monghyr „ 5, '90	0.60	Less rain and clearer sky than in the previous week. Sowing progressing favourably, and most of the usual area sown already.
	Beguserai ...	3.20	
BHAGULPORE Divn.	Jamui ...	4.05	
	34 Bhagulpur „ 5, '90	0.55	Weather—cloudy with rain. Transplanting going on and prospects good.
	Banka ...	1.38	
	Mudhepura ...	0.98	
	Soopool ...	2.71	
	35 Purneah „ 5, '90	0.90	Weather—cloudy and sultry. <i>Bhadoi</i> rice being weeded. Indigo manufacture going on. <i>Aghani</i> rice being transplanted. All crops, including jute, doing well.
	Kishengunge ...	5.36	
	Arrareah ...	2.10	
	36 Maldah „ 5, '90	0.81	Weather—hot and bright with occasional showers. <i>Bhadoi</i> and <i>haimanti</i> sowings progressing favourably. Manufacture of indigo commenced. Prices of rice stationary.
	Chanchal ...	2.69	
BHAGULPORE Divn.	Shibgunge ...	1.68	
	Gajole ...	2.26	
	37 Sonthal Pergahs. „ 5, '90	0.98	Weather—seasonable. Prospects excellent. <i>Makai</i> is being weeded. Some kinds of paddy are being transplanted, while other kinds are being sown.
	Deoghur ...	2.24	
	Godda ...	2.07	
BHAGULPORE Divn.	Jamtara ...	0.88	
	Pakour ...	8.25	
	Rajmehar ...	3.48	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack July 5, '90	7.83	Weather—seasonable. Cotton is being gathered. Sugarcane doing well. Prospects continue good.
	39 Pooree „ 3, '90	9.10	Weather—stormy. <i>Sarad</i> rice sowing retarded owing to excessive rainfall. <i>Beali</i> crop is being weeded. Price of common rice stationary.
	40 Balasore „ 5, '90	8.39	Weather—stormy. Excessive rainfall has caused some damage to young rice in Soro thana; elsewhere prospects are good. Number of coolies on relief-works 67.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh July 5, '90	3.24	Weather—seasonable. Sowings of paddy and <i>bhadoi</i> crops completed in many places and well advanced in other places. All crops doing well. Rice selling at from 15 to 18 seers per rupee.
	42 Lohardugga „ 5, '90	1.91	Weather—warm and cloudy. Sowing of winter rice going on briskly. Prospects of <i>bhadoi</i> crops good. Sugarcane in Palamow continues good. Prices steady.
	43 Singbhoom July 5, '90	4.75	Weather—seasonable; a break in the rain just now. Damage is said to have been caused to the paddy crop in parts of Bharagora outpost, pergunnah Dhalbhoom; from elsewhere the reports are satisfactory. Price of rice ranges from 18 to 24 seers per rupee.
	44 Manbhoom „ 5, '90	3.10	Weather—seasonable. The late heavy rain has done much good. There is now a favourable break. Paddy sowing nearing completion. Prospects generally good.
	Govindpore „ „	2.8	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 8th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	14 0	14 0	12 12	...	...	...	12 0	12 0	11 4	15 9	15 9	14 1	...	...	...
2	Bankoora	14 8	14 8	13 12	20 0	20 0	17 0	16 0	16 0	14 12	17 8	18 0	17 8	...	...	...
3	Beerbhoom	16 8	16 8	15 0	...	...	...	13 8	13 8	12 0	16 0	16 0	13 8	...	...	...
4	Midnapore	13 0	14 0	12 0	...	...	...	13 0	13 12	12 0	15 10	16 0	15 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	10 0	13 0	13 0	12 8	...	...	...
	Howrah	...	...	...	...	...	...	11 8	11 4	10 0	14 8	14 0	13 8	...	...	...
Central Districts.																			
	Calcutta	13 6	13 8	12 11	16 8	16 8	15 15	8 11	8 15	8 8	13 0	12 14	12 10	18 0	18 11	...			
6	24-Pergunnahs	15 0	15 0	13 0	17 0	17 0	16 0	8 0	8 0	7 0	14 0	14 0	13 0	...	...	...
7	Nuddea	15 0	15 0	15 0	20 0	...	17 12	11 7	11 13	12 0	12 14	12 14	13 7	...	...	...
8	Khoolna	...	...	...	...	...	...	12 8	13 0	10 8	17 0	15 0	13 0	...	...	...
9	Jessore	13 4	13 0	13 4	...	...	...	11 0	11 0	11 0	14 8	15 0	13 0	...	...	...
10	Moorshedabad	16 0	16 0	14 0	...	...	...	11 0	11 0	11 0	15 0	15 0	14 0	...	...	...
11	Dinagapore	15 8	19 4	13 0	16 0	16 0	...	13 4	13 8	11 4	15 9	17 0	13 4	...	...	...
12	Rajshahye	16 8	16 8	15 12	19 8	24 0	18 12	12 12	12 12	10 8	13 8	13 11	12 12	...	...	...
13	Rungpore	13 5	13 5	14 8	...	...	...	9 6	9 6	10 5	13 5	13 5	14 8	...	...	...
14	Bogra	15 12	15 0	13 8	...	...	...	12 0	12 0	12 0	17 4	16 8	15 0	...	...	...
15	Pubna	19 0	18 12	16 8	...	...	...	7 8	7 8	7 8	14 4	15 0	13 14	...	...	...
16	Darjeeling	10 0	10 0	9 0	9 0	9 0	10 0	5 0	5 0	6 0	11 0	12 0	10 0	...	...	...
17	Julpigoree	13 0	13 0	10 0	16 0	20 0	16 0	8 0	8 0	8 0	14 0	16 0	14 0	...	...	...
Eastern Districts.																			
18	Dacca	13 0	13 0	13 0	16 0	16 0	26 0	12 0	12 0	12 0	13 0	13 0	13 0	...	...	...
19	Furreedpore	15 0	14 0	16 0	20 0	18 0	...	10 0	10 0	8 0	15 0	14 0	12 0	...	...	...
20	Backergunge	...	...	...	...	...	...	12 5	12 8	11 0	14 0	13 0	12 0	...	...	...
21	Mymensingh	11 8	11 0	10 0	...	...	...	10 4	11 0	13 0	13 8	13 12	14 0	...	...	...

- A In subdivisions retail prices of salt per rupee are :—Culina 10 seers, Cutwa 10 seers 6 chittacks, and Kaneegunge 10½ seers.
 B At Rampore Haut retail price of salt 10 seers per rupee.
 C In subdivisions retail prices of salt per rupee are :—Contai 9 seers, Tumlook 8 seers, and Ghatal 10½ seers.
 D In subdivisions retail prices of salt per rupee are :—Serampore 11 seers and Jehanabad 10 seers 2 chittacks.
 D1 In subdivisions retail prices of salt per rupee are :—Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers Barrackpore 9 seers 2 chittacks, Dum-Dum 10 seers.
 E In subdivisions retail prices of salt per rupee are :—Kooashtea 10 seers, Meherpore 10 seers, Chooadanga 9½ seers, and Ranaghat 9 seers 2 chittacks.
 F In subdivisions retail prices of salt per rupee are :—Satkhira 9 seers 13 chittacks and Bagirhat 8 seers.
 G In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 9½ seers, Narail 9½ seers, and Bongong 10 seers.
 G1 In subdivisions retail prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 10 seers.

SEERS OF 80 TOLAHS.

Present return.	BABRA OR CUMBU. (<i>Pentstemon hypho-</i> <i>ticum</i> .)
Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	MARUA OR RAEL. (<i>Eleusine Corocoma</i> .)
Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	KANGNI O KARDU. ITALIAN MILLET. (<i>Setaria italica</i> .)
Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	GRAN, CHANA. CHHOLA, KAVLAAY OR SINGA. (<i>Croos arietinum</i> .)
Next preceding re- turn.	
Corresponding re- turn of last year.	

[illegible]

9	0	8	7	17	12	17	7	17	9	15	2
6	8	6	8	12	0	18	12	18	12	16	0
20	0	20	10	16	0	12	8	14	0	13	0
16	0	16	0	16	0	21	0	21	0	18	0
18	0	16	0	16	0	21	0	21	0	18	0
21	0	21	0	18	12	12	4	12	4	13	0
15	12	15	0	16	8	18	12	18	12	18	12
10	0	11	0	10	0	16	0	16	0	16	0
16	0	16	0	16	0	16	0	16	0	16	0

	14	0	14	0	14	0
	16	0	15	0	16	0
	15	4	15	4	14	12
	13	0	13	0	13	0

INDIAN-CORN OR MAIZE. (<i>Zea Mays.</i>)				ARHAR OR TURP, CAJAN PEA. (<i>Cajanus indicus.</i>)				FIREWOOD.		
Present return.		Next preceding return.		Corresponding return of last year.		Present return.		Next preceding return.		Corresponding return of last year.
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	19 8	19 8	19 4	100 0	100 0	107 0	107 0	...
26 0	26 0	19 0	20 0	20 0	15 8	240 0	280 0	240 0	240 0	...
...	13 8	13 8	...	160 0	160 0	160 0	160 0	...
...	13 0	13 0	12 0	120 0	160 0	160 0	160 0	...
...	11 0	11 0	13 0	120 0	120 0	120 0	120 0	...
...	13 0	13 0	13 0	100 0	100 0	100 0	100 0	...

18 0	17 8	...	16 5	16 8	15 13	92 8	92 8	100 0
...	17 0	17 0	16 0	200 0	200 0	200 0
...	19 0	17 12	16 0	...	...	...
...	160 0	160 0	160 0
...	18 0	18 0	18 0	160 0	160 0	160 0
...	18 0	18 0	17 12	200 0	200 0	200 0
...	15 12	15 12	18 0	180 0	180 0	160 0
...	18 10	18 4	18 12	240 0	240 0	240 0
...	10 5	10 5	12 4	100 0	100 0	120 0
...	80 0	90 0	80 0
...	18 0	18 0	17 4	200 0	200 0	200 0
11 0	11 0	18 0	8 0	8 0	8 0	120 0	120 0	120 0
...	12 0	13 0	11 0	200 0	128 0	128 0

...	...	...	13 0	13 0	16 0	160 0	160 0	160 0
6 0	16 0	20 0	10 0	10 0	12 0	120 0	120 0	120 0
...	...	...	12 5	12 8	11 12	120 0	120 0	120 0
...	...	...	12 0	10 0	16 0	...	...	...

[illegible]

H At Thakurgaon retail price of salt 8 seers per rupee.
I In Nowgong subdivision retail price of salt 9 seers 9 chittacks per rupee.
J In subdivisions retail prices of salt per rupee are :—Gaibanda 8 seers, Nilphamari 9 seers, and Kurigram 8 seers.
K At Serajgunge retail price of salt 10 seers per rupee.
L At Siliguri wholesale price of salt Rs. 4-4 per maund.
M In Alipore subdivision (at Fallowcatta) retail price of salt 8 seers per rupee.
N In subdivisions retail prices of salt per rupee are :—Masickgunge 8 seers, Moonsheegunge 8 seers 14 chittacks, and Naraingunge 9 seers 2 chittacks.
O In subdivisions retail prices of salt per rupee are :—Patuakhali 9 seers, Perozapore 9 seers, and Bhola 8 seers.
P In subdivisions retail prices of salt per rupee are :—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Shoropore 8 seers and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLUM. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																			
22	Chittagong ...	11 0	11 0	11 0	...	...	...	12 0	12 0	10 0	15 8	15 8	12 0	...	...	...
23	Noakholly ...	...	...	...	...	...	...	13 8	13 8	12 0	14 0	14 0	13 0	...	...	...
24	Tipperah ...	13 5	13 5	12 0	...	...	...	10 0	10 0	1 0	13 5	13 5	14 0	...	...	...
25	Chittagong Hill Tracts. Hill Tipperah	...	...	...	...	...	...	11 6	11 4	9 6	12 5	12 8	10 0	...	...	...
		6 0	6 6	6 0	...	...	...	8 0	8 0	8 0	13 0	12 0	14 0	...	...	...
BEHAR.																			
26	Patna ...	18 4	Red. 17 12	...	}	24 0	24 0	20 0	10 8	10 8	10 0	16 12	17 2	13 8	21 0	22 0	19 8		
27	Gya ...	17 4	White. 16 12	16 8		21 0	23 8	20 8	9 8	11 8	8 4	15 8	16 0	12 8		
		16 0	16 8	15 8															
28	Shahabad ...	15 0	15 0	14 0	20 0	22 0	19 0	8 0	8 0	8 8	14 0	15 0	12 0	18 0	18 0	...			
29	Durbhunga ...	15 6	15 6	14 13	21 0	20 14	18 4	13 3	12 0	10 4	15 6	15 6	11 6	...	...	...
30	Mozufferpore ...	17 8	17 0	13 0	20 0	20 0	16 0	9 0	9 0	9 0	15 0	16 0	12 0	...	...	...
31	Sarun ...	16 4	16 4	14 4	21 8	21 0	19 0	8 8	8 12	8 8	14 0	13 14	11 13	...	...	...
32	Chumparun ...	18 0	16 0	13 0	24 0	24 0	17 0	8 13	8 8	8 0	13 0	15 0	11 8	...	...	...
33	Monghyr ...	18 14	18 2	16 4	23 1	21 0	18 14	11 8	14 11	10 8	15 12	16 0	12 1	16 12	...	...	
34	Bhagulpore ...	17 11	17 11	15 12	22 11	21 7	17 10	10 1	Old. 10 1	11 6	Old. 13 14	13 14	12 8	}		
								13 4	New. 13 14		17 0	16 6	...						
35	Purneah ...	18 0	18 0	14 0	...	...	...	15 0	17 0	11 0	16 0	18 0	13 0	...	...	...
36	Maldah ...	18 0	18 12	15 0	...	...	...	10 0	9 0	8 0	14 0	14 0	12 8	...	...	...
37	Sonthal Perghs.	14 0	13 0	12 8	...	...	...	13 0	13 0	12 0	16 0	16 0	14 0	...	...	...
ORISSA.																			
38	Cuttack ...	10 8	10 8	9 13	...	...	...	10 8	10 8	10 8	17 1	17 1	13 2	...	...	...
39	Pooree ...	10 8	10 8	8 5	...	...	...	13 2	17 1	11 3	21 0	21 0	14 7	...	...	...
40	Balasore ...	15 0	15 0	16 0	13 0	13 0	13 0	11 0	12 0	13 0	16 0	17 0	15 0	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hazaribagh ...	14 8 to 15 0	14 8	13 0	18 0	18 0	14 0	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...
42	Lohardugga ...	{ 14 4 8 0	Red. 14 0	}	11 0	20 0	...	15 0	12 8	{ 18 0 16 0	Coarse. 18 0	}		
			White. 8 8			Ordinary. 16 0	
43	Singbhoom ...	12 0	12 0	10 0	14 0	14 0	14 0	12 0	16 0	12 0	18 0	20 0	16 0	...	...	...
44	Manbhoom ...	14 0	14 0	12 0	...	...	...	13 0	13 0	12 8	19 0	20 0	17 0	...	...	...

* Price of common rice at Jajpore 19 seers 11 chittacks and Kendrapara 23 seers 10 chittacks per rupee.

P1 At Cox's Bazar retail price of salt 8 seers per rupee.

P2 At Feni Haut retail price of salt 8 seers per rupee.

Q In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Sasaram 10½ seers, and Bhabuah 9 seers.

R In subdivisions retail prices of salt per rupee are :—Samastipore 11 seers and Madhubani 10 seers,

S In subdivisions retail prices of salt per rupee are :—Hajipore 9½ seers and Sitamarhi 10 seers.

CALCUTTA,
The 8th July, 1890.

INDIAN-CORN OR MAIZE. (Zea Mays.)			ARAH OR THUR. CADJAN PEA. (Cajanus indicus.)			PINEWOOD.		
Present return.			Present return.			Present return.		
Next preceding return.			Next preceding return.			Next preceding return.		
Corresponding return of last year.			Corresponding return of last year.			Corresponding return of last year.		
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
...	110 0	110 0	100
...	8 0	8 0	8 0	...	...	...
...	8 0	8 0	9 0	...	...	...
...	320 0	320 0	320
...	8 0	8 0	8 0	...	...	...

...	...	15 0	24 0	24 0	22 0	120 0	120 0	130
...	...	...	15 8	21 0	17 0	160 0	160 0	201
...	...	...	20 0	21 0	13 0	120 0	140 0	140
19 0	19 12	14 13	21 0	20 14	18 4	160 0	160 0	160
19 0	20 0	16 0	20 0	20 0	18 0	160 0	160 0	160
...	22 0	17 0	20 12	20 8	20 0	160 0	160 0	160
21 0	...	15 8	21 0	21 0	18 8	160 0	160 0	160
21 0	21 0	10 8	21 0	20 7	17 5	147 0	147 0	150
20 8	21 7	16 6	21 7	20 3	17 10	126 4	176 12	160
...	...	...	15 0	14 0	15 0	120 0	130 0	...
...	...	...	...	...	...	120 0	120 0	150
20 0	20 0	16 0	21 0	20 0	19 0	200 0	200 0	200

...	...	...	18 6	18 6	13 2	80 0	80 0	...
...	...	...	13 2	13 2	14 7	80 0	80 0	...
...	...	...	...	...	...	160 0	160 0	...

21 0	19 0	15 0	20 0	1	20 0	1	320 0	220 0	...
...	32 0	20	20 8	19 0	8 0	180 0	130 0	...	
20 0	14 0	22 0	25 0	26 0	11 0	240 0	240 0	...	
25 0	26 0	...	19 0	18 0	14 0	200 0	200 0	...	

Station Bazars of the Districts of Bengal on the 30th June 1890—(concluded).

			WHOLESALE PRICES PER MAUND OF 40 SEERS.			AVERAGE WAGES PER MONTH.									DISTRICTS.
SALT.			SALT.			ABLE-BODIED AGRICULTURAL LABOURER.			SYCK OR HORSE- KEEPER.			COMMON MASON, CARPENTER, OR BLACKSMITH.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	
Eastern Districts—concluded.															
P1	9 0	10 0	3 14 0	3 14 0	3 14 0	9 0	10 8	8 0	7 0	8 0	8 0	12 0	9 8	9 4	Chittagong.
P2	9 0	9 0	4 0 0	4 0 0	4 0 0	4 0	7 0	6 0	5 0	5 0	5 0	5 0	8 0	8 0		Noakholly.
9 11	9 11	9 0	4 2 0	4 2 0	4 4 0	7 0	7 0	7 0	6 0	7 0	7 0	8 0	8 0	8 0	Tipperah
8 0	8 0	8 0	4 8 0	4 8 0	5 0 0	12 0	12 0	12 0	Not procurable.			20 0	20 0	20 0	Chittagong Hill Tracts.
8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	8 0	8 0	8 0	6 0	6 0	6 0	15 0	15 0	15 0	Hill Tipperah.
BEHAR.															
10 0	10 0	10 0	3 13 0	3 13 0	3 12 0	4 0	4 0	4 0	4 8	4 8	4 8	7 0	7 0	7 0	Patna.
9 2	9 2	9 2	4 2 0	4 2 0	4 2 0	2 8	2 8	2 8	3 0	3 0	3 0	8 0	8 0	8 0	Gya.
Q	10 0	10 0	3 15 0	3 15 0	3 14 0	...	...	...	...	...	...	...	...	...	Shahabad.
R	10 0	11 0	3 12 0	3 8 0	3 11 0	3 12	3 12	3 12	3 0	3 0	3 0	3 13	3 12	3 12	Durbhuanga.
S	10 0	10 0	3 12 0	4 0 0	3 12 0	3 12	3 12	3 12	3 0	3 0	3 0	4 0	5 10	7 8	Mozufferpore.
9 12	9 12	10 0	4 1 6	4 1 6	3 15 0	7 8	7 8	7 8	7 0	7 0	7 0	10 0	10 0	10 0	Saran.
T	10 8	10 0	3 12 0	3 12 0	4 0 0	2 13	2 13	2 13	4 0	4 0	4 0	5 10	5 10	5 10	Chumparan.
U	9 15	9 8	3 13 9	3 12 6	3 12 6	4 11	5 10	5 10	3 0	3 0	3 0	5 10	6 0	5 0	Monghyr.
10 1	10 1	10 1	3 15 6	3 15 6	3 12 0	4 11	3 12	3 12	4 0	4 0	4 0	5 0	9 6	11 4	Bhagulpore.
V	9 0	9 0	...	4 7 0	4 7 0	5 10	5 10	4 11	4 0	4 0	4 0	7 0	7 0	7 0	Purneah.
9 8	9 8	9 8	4 2 0	4 2 0	4 0 0	7 8	7 8	7 8	5 0	5 0	5 0	8 0	8 0	10 11	Maldah.
9 4	9 0	9 0	3 14 0	4 0 0	4 3 0	...	...	...	...	...	...	...	...	...	Sonthal Pergas.
ORISSA.															
8 0	8 0	8 0	4 7 0	4 7 0	4 7 0	5 0	5 0	5 0	4 8	4 8	4 8	6 0	6 0	6 0	Cuttack.
10 8	10 8	9 13	3 8 0	3 8 0	3 12 0	...	...	...	...	...	...	...	...	...	Pooree.
W	10 0	10 0	3 14 0	3 14 0	4 0 0	4 0	4 0	4 0	4 0	4 0	4 0	7 0	7 0	7 0	Balasore.
CHOTA NAGPORE.															
South-West Frontier Agency															
8 8	8 0	8 0	4 4 0	4 4 0	4 8 0	4 0	4 3 1	3 12	5 0	4 0	5 0	8 0	7 8	8 0	Hazaribagl.
8 8	8 8	7 8	4 11 0	4 10 0	5 0 0	2 13	3 4 1	3 4 1	3 8	3 8	3 8	3 12	4 11	4 11	Lohardugga.
8 0	8 8	7 0	4 12 0	4 12 0	5 8	3 0	3 0	3 0	4 0	4 0	4 0	12 0	12 0	12 0	Singbhoom.
X	9 2	9 0	4 4 0	4 2 0	4 6 0	4 3 6	4 11	4 11	...	5 0	5 0	9 6	13 2	13 2	Manbhoom.

T At Bettiah retail price of salt 2½ seers per rupee.

U In subdivisions retail prices of salt per rupee are :—Bogusrai 9½ seers and Jamui 9 seers.

V In subdivisions retail prices of salt per rupee are :—Kishengunge 8 seers and Arrareah (Raneegunge) 10 seers.

W At Bhadruck retail price of salt 8 seers per rupee.

X At Govindpore retail price of salt 9 seers per rupee.

Published for general information

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 11 11	2 11 3	2 14 2	2 3 1	2 3 0	2 4 3	4 5 2	4 3 7	4 7 5	2 13 2	2 13 10	2 14 5
2	Serajunge ...	2 5 0	2 4 0	2 8 0	...	...	...	4 11 0	4 12 0	4 2 0	2 12 0	2 13 0	3 0 0
3	Dacca ...	3 0 0	3 0 0	3 0 0	2 7 0	2 7 0	1 8 0	3 4 0	3 4 0	3 4 0	3 0 0	3 0 0	3 0 0
4	Naraingunge ...	...	...	...	...	...	...	3 2 0	3 2 0	3 0 0	2 14 0	2 14 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 9 0	...	...	...	3 4 0	3 4 0	4 0 0	2 8 0	2 8 0	3 4 0
6	Patna ...	2 3 0	Red. 2 3 0	...	1 10 3	1 10 3	1 15 0	3 12 0	3 12 0	3 14 0	2 5 6	2 5 0	2 14 6
		2 5 0	White. 2 5 6	2 6 6									
7	Balasore ...	2 8 0	2 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 8 0	3 4 0	3 0 0	2 6 0	2 4 0	2 8 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 0	1 14 0	2 6 0
9	Cuttack ...	3 10 0	3 10 0	4 0 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	3 0 0

Calcutta,
The 8th July, 1890.

[illegible]

14440

OF 40 SEERS.

[illegible]

in the undermentioned *Marts of Bengal on the 30th June, 1890.*

MARTS.	GRAM, CHANA, CHHOLA, KADALAY OR SONARA. (<i>Cicer Ardetum</i> .)			INDIAN-COBN OR MAIZE (<i>Zea Mays</i> .)			ARHAR OR THUR. CABAN PEA. (<i>Cajanus indicus</i> .)			FIRWOOD.			SALT.		
	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
	2 0 11	2 0 6	2 6 3	1 15 7	2 1 0	...	2 3 2	2 3 2	2 3 4	6 0 5	9 0 5	9 0 5	6 3 9	6 3 9	5 7 10
Calcutta.	2 8 0	2 8 0	2 12 0	...	...	...	...	...	...	...	...	...	8 12 0	3 13 0	4 0 0
Serajpunge.	2 12 0	2 12 0	2 12 0	...	...	...	3 0 0	3 0 0	2 6 0	0 4 0	0 4 0	0 4 0	4 2 0	4 0 0	3 15 0
Dacca.	3 8 1	3 4 0	2 8 0	...	...	...	3 12 0	3 14 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0
Naraingunge	3 2 0	3 2 0	3 6 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 14 0
Chittagong.	1 13 0	1 12 6	1 13 0	...	...	...	1 10 3	1 10 3	1 12 0	0 6 6	0 5 6	0 5 0	3 13 0	3 13 0	3 12 0
Patna.	2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	4 0 0
Baharo.	...	...	...	...	...	...	...	...	...	...	...	...	3 8 0	3 8 0	3 12 0
Poorce.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuttack.	2 10 0	2 10 0	2 0 0	...	...	...	2 2 0	2 2 0	3 0 0	0 8 0	0 8 0	0 8 0	4 7 0	4 7 0	4 7 0

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

NAMES OF MARKS.	STOCK IN HAND AS COMPILED ON—												
	1st week of July 1889.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Balinghatta	8,73,000	7,82,700	6,82,000	5,00,000	4,54,000	2,95,500	3,00,000	5,48,000	9,51,100	15,22,500	10,94,000	9,85,500	7,54,000
Ooltadanga	82,500	78,700	74,400	71,000	67,400	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900
Chitpore, Golabaree, Coomer- tooly, Hatkhola, and Oulpy Ghat.	6,85,400	6,97,700	5,76,300	6,74,100	6,83,300	5,86,000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,800	4,79,200	4,99,100
Pathuriachatta, Posta, and Jorabagan.	2,000	3,000	4,000	5,000	8,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000
Tallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,03,700	1,10,700	72,500	64,500	65,200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700
21 Minor Bazars (estimated) ..	2,40,000	2,40,500	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 8,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Nowabgunge, Bhuddressur, and Chander- nagore.	19,906	18,117	14,265	14,382	13,410	14,080	28,425	19,604	33,409	31,225	19,309	22,762	45,579
Total ...	22,60,506	21,30,917	18,93,465	18,25,932	17,51,310	15,13,080	15,68,975	18,43,506	22,66,969	28,77,375	23,61,660	21,85,112	19,69,579
On Railway premises on both sides of the river.	7,730 (on 3rd July 1889.)	4,179 (on 3rd Aug. 1889.)	2,608 (on 3rd Sept. 1889.)	8,208 (on 3rd Oct. 1889.)	14,011 (on 3rd Nov. 1889.)	6,077 (on 3rd Dec. 1889.)	28,007 (on 3rd Jan. 1890.)	26,035 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar. 1890.)	24,906 (on 3rd Apl. 1890.)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,583 (on 3rd July 1890.)
On boats un- loaded ...	25,610 (1st to 3rd July 1889.)	1,32,232 (1st to 3rd Aug. 1889.)	25,339 (1st to 3rd Sept. 1889.)	17,853 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	20,650 (1st to 3rd Dec. 1889.)	61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb. 1890.)	56,509 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apl. 1890.)	50,197 (1st to 3rd May 1890.)	24,736 (1st to 3rd June 1890.)	23,551 (1st to 3rd July 1890.)
By Port Com- missioners' re- turns.	27,106 (1st to 3rd July 1889.)	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept. 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan. 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,667 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)
Grand total of Stocks ...	23,20,352	22,96,673	19,48,282	18,97,914	17,81,363	15,49,242	17,90,438	21,81,281	23,05,503	29,98,735	24,43,474	22,45,762	20,39,831
Probable stock available for exportation by sea.	12½ lakhs	12½ lakhs	9 lakhs	8½ lakhs	7½ lakhs	6 lakhs	7½ lakhs	11½ lakhs	14½ lakhs	19½ lakhs	14 lakhs	12 lakhs	9½ lakhs

STATISTICAL DEPARTMENT,
The 7th July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

**Abstract of the results of Meteorological Observations taken at the Alipore
Observatory in the month of June 1890.**

	Inches.	Date.	Hour.
The mean pressure of the month	29.550		
The average pressure of June from 24 years' registers ...	29.549		
The highest pressure in the month	29.704	3rd	10
The lowest pressure in the month	29.378	23rd	16
The range of pressure	0.326		
<hr/>			
The total number of hours of bright sunshine during the month	101.7		
The maximum possible number of hours of sunshine ...	403.4		
<hr/>			
The mean temperature of the month	84.4		
The average temperature of June from 24 years' registers	85.0		
The highest temperature in the month	95.7	1st.	
The lowest temperature in the month	71.4	6th.	
The range of temperature during the month	24.3		
The mean daily range of temperature	11.7		
The greatest range of temperature in one day	18.8	2nd.	
<hr/>			
The mean humidity of the month	84		
The average humidity of June from 24 years' registers ...	81		
<hr/>			
The mean vapour pressure of the month	0.988		
The average vapour pressure of June from 9 years' registers ...	0.998		
The mean cloud proportion of the month	6.94		
The average cloud proportion of June from 13 years' registers	7.13		
The total rainfall of the month	13.40		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	13.12		
The average fall of June from 48 years' registers ...	12.08		
The greatest fall in 24 hours	4.28	22nd.	
<hr/>			
The number of rainy days in the month	21		
The average number of rainy days in May from 24 years' registers	19		
<hr/>			
The mean maximum equilibrium temperature of solar radiation during the month	143.7		
The mean difference of sun and air temperatures	53.9		
The greatest sun temperature	156.3	28th.	
The greatest excess of sun over air temperature	66.5	28th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	76.5		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	1.6		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3.3	5th.	
<hr/>			
The mean movement of the wind per day	145.0		
The greatest movement of the wind in one day	390.0	24th.	
The greatest movement of the wind in one hour	24.0	24th 11 to noon.	
The number of hours with winds from each of the 8 points—			
<hr/>			
N. 2, N.E. 11, E. 69, S.E. 129, S. 263, S.W. 175, W. 18, N.W. 6, Calm 47.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.5 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 7th July 1890.

For Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.														
			AIR PRESSURE.			WIND.		TEMPERATURE.									
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.	
ORISSA.	Pooree	Pooree	29.583	29.595	—	SW	27.4	89.7	29th June	75.1	30th June	86.5	78.8	82.7	—	81.4	
	Gopalpore	Gopalpore	29.567	29.588	—0.022	SSW	37.0	87.2	4th July	75.8	2nd July	83.7	78.2	81.0	—2.7	69.8	
	False Point	False Point	29.564	29.586	—0.034	Variable	37.0	90.0	28th June, 4th July	75.1	29th June	87.6	77.6	82.6	—1.2	82.0	
	Cuttack	Cuttack	29.524	29.605	—0.022	Westerly	112.4	93.9	23th June	73.3	2nd July	88.6	77.0	82.8	—2.5	81.7	
	Balasore	Balasore	29.533	29.591	—0.021	Variable	189.7	91.9	28th "	80.7	3rd "	89.0	82.6	85.8	+1.6	83.6	
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.567	29.593	—0.022	SW	432.0	90.2	1st July	78.5	1st "	88.3	80.5	84.4	—0.2	84.0	
	South 24-Pergunnahs	Midnapore	29.455	29.605	—0.010	S	334.8	92.3	28, 29 June & 4 July	77.1	29th June, 3rd July	100.0	78.5	84.3	—0.9	82.5	
	24-Pergunnahs	Calcutta	29.585	29.606	—0.002	Variable	123.7	90.5	28th June	76.7	29th June	88.9	78.5	83.7	+0.1	83.1	
	Howrah	Burdwan	29.497	29.597	—0.013	Variable	122.1	92.6	4th July	76.9	28th "	90.7	79.4	85.0	—0.3	82.1	
	Hooghly	Bankoora	29.294	29.592	+0.003	Variable	141.7	93.1	4th "	75.6	3rd July	89.7	78.3	84.0	—	81.7	
	Beerbhoom	Raneegunge	29.286	29.619	+0.014	Variable	115.9	93.5	4th "	76.8	28th & 29th June	90.1	78.4	84.3	—1.7	81.3	
	West Burdwan	Berhampore	29.545	29.612	—0.004	E	128.6	92.7	2nd "	77.3	3rd July	90.5	78.9	84.7	+0.1	82.5	
	Moorshedabad	Krishnaghur	29.599	29.614	+0.008	ESE	178.6	91.8	30th June, 2 & 4 July	78.2	29, 30 June & 2nd July	90.5	79.1	84.8	—0.4	83.3	
	Nuddea	Jessore	29.601	29.634	+0.002	SE	140.0	93.8	23th June	77.4	1st "	90.7	79.5	85.1	0	83.1	
	Jessore	Chittagong	29.563	29.682	—0.016	SE	123.8	91.2	2nd July	76.0	30 June & 3rd July	87.3	77.1	82.3	+1.2	81.4	
EAST BENGAL.	Chittagong Hill Tracts	Demagiri						Observations not received.									
	Backergunge	Barrisal	29.627	29.639	—0.016	SE	139.9	90.8	28th June*	71.9*	1st July*	87.8*	77.5*	82.7*	+0.4*	83.3	
	Noakholly	Noakholly	29.626	29.670	—0.006	E	197.5	88.0	2nd July	76.8	3rd "	86.6	77.6	82.1	+0.2	82.6	
	Furzedpore	Furzedpore	29.612	29.652	+0.011	SE	117.6	91.0	30th June	78.4	28th June & 2nd July	88.4	79.1	83.8	+0.4	81.5	
	Dacca	Dacca	29.615	29.638	—0.010	South-easterly	191.0	91.1	2nd July	76.7	1st "	89.2	78.6	83.9	0	83.2	
	Commillah	Commillah	29.617	29.653	—0.011	SE	137.8	91.3	2nd "	75.3	1st "	89.2	76.8	83.0	+0.5	81.4	
	Mymensingh	Mymensingh	29.585	29.643	—0.013	ENE	124.5	91.7	2nd "	75.6	28th June	88.2	78.6	83.4	+1.4	82.3	
	Bogra	Bogra	29.559	29.621	+0.008	E	112.6	93.8	2nd "	78.1	28th & 30th June	89.9	79.5	84.7	+1.1	83.5	
	Pubna	Serajgunge	29.590	29.637	—0.030	SE	82.5	92.7	2nd "	77.8	28th "	89.0	79.1	84.0	—0.6	81.7	
	Rajshahye	Rampore Beau-leah	29.550	29.620	+0.016	SE	131.3	91.8	2nd "	78.1	29th "	89.4	79.4	84.4	+0.1	83.7	
NORTH BENGAL.	Maldah	Maldah	29.538	29.618	—	SE	77.7	91.7	2nd "	78.7	28th "	91.7	79.5	85.6	—	84.3	
	Dinagepore	Dinagepore	29.502	29.622	—0.033	ESE	73.1	94.6	2nd "	78.6	28th "	91.0	81.4	86.2	+2.6	83.4	
	Rungpore	Rungpore	29.534	29.658	—0.013	South-easterly	264.1	96.8	2nd "	75.7	28th "	91.0	79.4	85.2	+2.1	83.1	
	Julpigoree	Julpigoree	29.351	29.636	—0.016	?	?	90.4	2nd "	74.6	28th "	89.2	76.7	83.0	+0.9	82.0	
	Cooh Behar	Darjeeling Hill Tracts	Darjeeling	29.900	—	+0.009	ESE	104.0*	79.6	2nd "	56.7	3rd July	93.7	87.5	92.2*	+0.6*	62.3
	Purneah	Purneah	29.401	29.617	—0.003	ESE	89.2	94.7	2nd "	73.9	29th June	90.6	78.8	84.7	+0.3	84.3	
	North Bhagulpore	Mozufferpore	29.412	29.590	—	ESE	194.0	94.3	2nd "	77.7	28th & 29th June	90.9	79.6	85.3	—	83.0	
	Durbhunga	Durbhunga	29.449	29.615	+0.003	ESE	157.0	94.9	2nd "	?	?	91.3	?	?	?	84.1	
	Chumparun	Motihari	29.387	29.613	+0.016	ESE	231.8	95.2	2nd "	75.9	29th "	91.5	78.9	83.2	+0.6	84.1	
	Saran	Chupra	29.405	29.602	+0.009	SE	?	95.3	3rd "	77.6	28th "	92.0	79.4	85.7	—0.2	83.7	
SOUTH BENGAL.	Shahabad	Dehree	29.258	29.611	+0.024	S-wly	137.6	94.3	2 & 4 "	76.5	30th "	90.6	78.8	84.7	—0.3	83.0	
	Buxar	Buxar	29.351	29.593	+0.005	E	242.3	91.9	2nd "	76.3	28 & 30 "	88.6	78.2	85.4	—2.4	82.7	
	Arrah	Arrah	29.390	29.585	+0.006	Calm	32.4	94.4	2nd "	78.0	28, 29 June, 1 & 3rd July	91.3	79.0	85.2	—0.5	83.0	
	Gya	Gya*	29.230	29.607	+0.014	E	128.7	94.5	4th "	78.8	3rd "	91.9	79.9	85.9	—0.3	83.2	
	Patna	Bankipore	29.406	29.589	—0.011	E	175.6	96.0	2nd "	79.2	28th & 29th June	11.5	80.0	85.7	—0.4	84.0	
	South Bhagulpore	Bhagulpore	29.438	29.600	—0.006	Calm	75.0	94.2	2nd "	77.0	29th "	90.7	79.4	85.1	+0.1	83.0	
	Monghyr	Doomka	29.111	29.606	—	Variable	186.7	92.6	4th "	76.7	29th "	88.6	78.1	83.4	—	82.0	
	Sonthal Pergunnahs	Hazaribagh	27.628	29.614	+0.001	Variable	246.9	87.5	4th "	72.2	30th June & 2 July	83.9	72.8	78.4	—1.7	76.0	
	Lohardugga	Ranchoe	27.490	29.609	—0.002	Variable	210.7	85.5	4th "	70.9	29th June, 1, 2 July	82.6	71.5	77.1	—0.2	76.0	
	Manbhoom	Chyebassa	28.832	29.594	+0.011	Variable	81.4	91.4	4th "	75.7	29th June & 2 July	88.7	77.1	82.9	—3.9	80.0	
ASSAM.	Sibsagar	Sibsagar	29.355	29.639	+0.002	SW	?	97.1	2nd "	76.0	28th June	91.6	78.6	85.1	+1.1	81.7	
	Assam	Dhubri	29.527	29.645	—0.050	Variable	128.6	87.7	2nd "	76.8	28th June & 1 July	86.1	78.1	82.1	+0.8	80.0	
	Silchar	Silchar	29.579	29.683	—0.010	Calm	?	94.5	2nd "	76.2	29, 30 June & 4 July	90.9	77.2	84.1	+0.9	80.0	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetic means of the reading during the same period for the last year. The humidity of the atmosphere is expressed in percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 4th of July 1890.

DISTRICT OBSERVATIONS.																
Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.		
			Mean for district.	Normal mean.	Since 1st of June.			Since 15th May 1890.								
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
87	6.1	9.10	3.08		9.65		11.56			3.8	Pooree	Pooree ...	ORISSA.			
86	5.7	4.82									Gopalpore	False Point ...				
83	7.7	4.67									Cuttack	Cuttack ...				
80	7.7	6.06	3.25		10.82		12.89			3.7	Balasore	Balasore ...				
82	3.6	8.44	2.34		9.72		12.29			3.6	Saugor Island	South-West Midnapore				
86	8.6	1.29	1.00	2.92	10.67	11.61	-0.94	17.64	13.85	+3.79	3.7	Midnapore		South 24-Pergunnahs		
85	3.6	2.15	2.04	2.38	15.75	10.98	+4.77	21.95	13.02	+8.93	5.0	Calcutta	24-Pergunnahs...	SOUTH-WEST BENGAL.		
84	7.6	0.30	1.11	2.25	15.29	11.18	+4.21	20.03	13.85	+6.18	3.7	Burdwan	Howrah			
85	7.7	3.22	1.64	1.62	20.42	9.81	+10.61	23.25	12.43	+10.82	3.7	Bankoora	Bankoora			
71	8.0	1.55	2.21	2.85	15.43	11.86	+3.57	19.49	13.98	+5.51	3.8	Raneegunge	Raneegunge ...			
86	6.0	1.44	1.61	2.04	17.64	11.18	+6.46	19.41	13.18	+6.23	3.6	Berhampore	West Burdwan			
89	8.7	0.83	1.10	2.30	12.10	10.81	+1.29	14.68	13.93	+0.75	4.5	Krishnagur	Moorshedabad			
84	7.7	0.57	0.87	1.78	12.65	10.89	+1.76	16.44	14.30	+2.05	2.6	Jessore	Naddea			
88	7.9	1.02	1.12	2.25	15.35	13.56	+1.79	20.01	16.93	+3.08	3.6	Chittagong	Jessore			
85	7.4	0.55		6.23		32.86		38.13			5.6	Demagiri	Khoulina			
			3.35		21.52		25.79				5.6	Chittagong	Chittagong	EAST BENGAL.		
83	7.9	2.58	2.06	3.80	17.61	21.54	-3.93	23.67	25.43	-1.76	4.8	Barrisal	Chittagong Hill Tracts			
84	1.9	1.47	1.29	4.95	21.08	30.29	-9.21	29.09	35.06	-5.97	5.0	Noakholly	Backergunge			
88	6.4	0.33	1.00	2.33	9.68	13.64	-3.94	13.21	17.65	-4.43	4.0	Noakholly	Noakholly			
86	7.9	0.22	1.70	2.95	13.56	14.93	-1.37	22.23	18.99	+3.24	3.0	Furteedpore	Furteedpore			
83	4.3	2.87	2.59	2.96	10.97	17.96	-6.99	23.16	22.10	+0.06	4.0	Dacca	Dacca			
88	7.9	0.75	0.87	2.85	20.07	18.89	+1.18	27.64	23.84	+3.80	3.0	Commillab	Tipperah			
86	6.4	0.62	0.62	2.21	16.51	14.29	+2.22	20.88	18.88	+2.00	1.8	Mymensingh	Mymensingh			
88	7.1	0.61	0.49	2.13	10.74	12.48	-1.74	16.89	16.28	+0.61	3.0	Bogra	Bogra			
86	3.7	1.15	0.64	2.82	18.14	12.56	+5.58	22.84	16.07	+6.77	2.7	Sernagunge	Pubna	NORTH BENGAL.		
84	3.0	0.81	1.75	2.76	11.43	13.53	-2.10	13.85	16.31	-2.46	4.0	Rampore Beaulah	Rajshahye			
82	6.0	1.27	1.93	3.17	16.63	15.47	+1.16	20.10	19.64	+0.46	2.2	Maldah	Maldah			
27	3.7	3.42	1.68	3.45	28.77	23.37	+5.40	33.02	30.76	+2.26	3.5	Dinagore	Dinagore			
90	2.3	3.31	3.50	4.98	45.91	34.11	+11.80	49.45	42.87	+6.58	4.4	Rungpore	Rungpore			
91	7.0	5.00	7.43	8.00	36.23	33.90	+2.33	40.66	40.68	-0.02	5.8	Julpigoree	Julpigoree			
85	5.9	2.11	2.15	3.35	16.62	13.94	+2.68	18.80	16.98	+1.82	5.6	Cooch Behar	Cooch Behar	NORTH BENGAL.		
87	3.4	1.64	0.95	2.63	8.36	9.43	-1.07	10.14	10.80	-0.66	2.0	Darjeeling	Darjeeling Hill Tracts			
86	4.7	1.51	2.33	2.99	11.18	16.01	+4.83	12.37	11.39	+0.98	4.0	Purneah	Purneah			
83	5.1	0.72	1.57	3.24	12.68	10.44	+2.24	16.40	11.79	+4.61	3.0	North Bhagulpore	North Bhagulpore			
85	3.9	0.54		2.69		8.18		9.31			3.5	Mozufferpore	Mozufferpore			
79	4.0	0.98										Durbhunga	Durbhunga			
84	6.7	2.43	1.70	2.11	10.53	6.32	+4.21	11.12	7.19	+3.93	3.8	Chumparan	Chumparan	NORTH BENGAL.		
83	7.0	1.22										Saran	Saran			
77	6.3	0.79	1.30	2.35	13.60	7.34	+6.26	14.37	8.71	+5.66	3.3	Shahabad	Shahabad			
81	6.6	1.42	0.76	2.63	8.61	8.12	+0.49	9.01	9.57	-0.56	2.3	Gya	Gya			
84	6.6	0.73	1.57	2.69	12.88	8.79	+4.09	15.95	10.41	+4.64	3.4	Bankipore	Bankipore			
83	6.0	0.39	2.29	3.00	15.73	10.94	+4.84	18.15	13.37	+4.78	3.8	Bhagulpore	South Bhagulpore			
87	8.9	3.77		3.27		10.24		11.80			4.4	Monohyr	Monohyr	SOUTH BENGAL.		
83	7.7	1.80	1.09	2.10	8.33	9.28	-0.95	9.98	11.02	-1.04	3.3	Hazaribagh	Hazaribagh			
			1.97	2.27	13.77	9.57	+4.20	15.26	11.23	+4.03	5.0	Ranchi	Ranchi			
81	6.1	4.61	4.75	2.12	11.21	9.76	+1.45	14.30	12.33	+1.97	4.0	Manbhoom	Manbhoom	CHUTTA NAGPUR.		
91	9.3	2.71										Singbhoom	Singbhoom			
90	7.7	0.96										Sibsagar	Sibsagar			
89	9.3	7.47										Assam	Assam	ASSAM.		
												Dhubri	Dhubri			
												Silchar	Silchar			

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional 17 years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of June.	Average total rain- fall from 1st of June.	Total rain- fall since 16th May 1890.	Average rainfall from 15th May to date.
			Saturday 28th June.	Sunday 29th June.	Monday 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Number rainy days.	Rainfall week.				
OISSA	Pooree	Pooree	0.20	0.88	2.28	8.22			4	9.58	17.79	9.11	19.63	10.58	
		Khurdah	0.30	0.29	0.17	1.14	8.24		5	10.14	21.19	10.73	25.43	12.84	
		Banpur	0.60	0.04	0.60	3.75						7.95		8.81	
		False Point		1.37	0.28	1.38	1.64		4	4.67	13.42	10.81	15.73	13.21	
		Gop													
	Cuttack	Satpara	0.05	0.20	0.10	1.50									
		Pipli													
		Jagatsingapore		0.10	2.30	2.70	1.25		0.05	5	6.40	13.68	8.54	14.78	9.90
		Banki	1.25	0.87	0.16	2.35	4.06			5			10.24		11.72
		Cuttack	0.20	0.23		2.50	4.72	0.16		5	7.83	19.63	13.11	22.84	15.92
	Balasore	Kendrapara	0.03	0.22	0.05	1.76	2.90	0.03		6	5.08	9.50	10.51	13.11	12.53
		Jajpore		0.43		2.26	1.96			3	4.63	12.84	11.72	18.76	14.25
		Dharmasala	0.25		1.82	3.90									
		Satipore	0.72		3.20	4.60	0.4								
		Chandbali		0.71	0.23	1.17	1.66			4	4.77	12.14	8.87	16.38	11.34
SOUTH-WEST BENGAL.	Midnapore	Bhuddruck	0.12	3.65		0.45	1.80			4	6.02	16.61	10.20	20.68	13.26
		Sorah	0.40	0.79	0.31	1.80							8.04		11.20
		Balasore	0.61	5.36	0.29	1.26	0.67	0.20		6	8.39	16.89	10.36	22.32	13.17
		Jellapore		0.36		0.15	0.80	0.16		4	1.47	13.33	9.18	19.07	10.89
		Buripodah	2.45	0.61	0.76	0.60				4	4.42	15.37	11.65	17.94	13.81
	24-Pergunnahs	Contai		0.26		0.20	0.18			3	0.73	10.65	11.46	20.53	13.55
		Saugor Island		0.27		0.21	0.45	0.36		4	1.29	10.82	11.94	16.40	14.39
		Tumlook		0.10		0.70	0.30	0.50		4	1.60	14.20	10.39	23.20	12.69
		Midnapore	0.66	0.27	0.06	1.00	0.10	0.59		5	2.93	19.19	10.49	24.50	12.47
		Ghatatal		1.05	0.69	1.16	0.14	0.61		5	2.45	13.88	18.17	13.70	13.90
	Howrah	Kurabhaty		0.34	0.25	0.23	0.21	0.17		5	1.20	7.77		22.73	
		Garbetta		0.85		0.05	0.21	0.18		4	1.29	12.35		2.74	
		Diamond Har- bour			0.20	0.42	0.12	0.22		4	0.96	10.52	11.41	15.65	13.62
		Canning Town		0.10	1.83		0.30	0.45		4	2.70	16.34		19.20	
		Alipore Jail			0.04		0.09	0.02		3	0.15	14.04	11.80	18.23	14.23
Hooghly	Barrackpore		0.10		0.60	0.13			3	0.83	12.55	11.63	17.03	13.86	
	Dum-Dum		0.30	0.02	0.16	0.36	0.02		5	0.96	13.82	11.31	16.98	14.16	
	Baraset		0.19		0.10	0.44	0.10		4	0.83	11.23	10.97	17.83	13.75	
	Buseerhat					1.70	0.50		2	2.20	16.45	11.93	22.60	15.96	
	Howrah	Howrah	0.17	0.41	0.01	0.18	0.03		5	0.90	13.66	11.22	16.67	13.43	
Burdwan	Ooloberia		0.11	1.40	0.04	0.32	0.10		5	1.97	25.32	10.47	30.88	14.05	
	Serampore.		0.11		0.60	0.20	0.16		4	1.67	13.63	11.61	17.80	13.12	
	Hooghly				0.16		0.35		2	0.51	15.98	10.42	19.97	13.65	
	Jehanabad		0.85		0.80	0.09	0.18		4	1.92	17.11	11.03	22.16	13.79	
	Culina		0.25			0.05	0.12	0.02	4	0.44	18.26	9.39	20.61	11.61	
Bankoora	Burdwan	2.45	0.70	0.02		0.05			4	3.22	21.07	9.37	23.84	12.18	
	Cutwa	1.11			0.15	0.01			3	1.27	21.94	16.64	25.01	13.47	
	Raneegunge	0.64	0.50	0.24		0.06			4	1.44	17.95	9.67	20.43	11.59	
	Mankur	0.10	0.05	0.03		0.18			4	0.96	17.17		21.51		
	Bankoora	0.09	0.54	0.01		0.57	0.38		5	1.59	13.11	10.92	17.72	13.17	
Bharbhoom	Bishenpore		1.32			0.24			2	1.36	15.08	11.67	22.26	13.56	
	Maliara	0.08	1.71	0.11		0.71			4	2.61	22.65	11.98	24.15	12.95	
	Khatra		1.67	0.06		0.70	0.04		4	3.07	10.29	13.77	13.81	16.87	
	Indas	1.64	1.90	0.03		0.25	0.04		5	3.86	16.55		19.28		
	Kotalpore	1.12	0.29	0.23		0.17	0.04		5	2.16	18.75		23.62		
Naddea	Anda	0.80	0.70			1.30			3	2.60	13.81		17.11		
	Gangajalghati		3.27	0.30					2	3.57	23.18		26.19		
	Raipore	0.09	1.94		0.45	0.78	0.32		5	3.60	11.79		18.22		
	Sonamukhi		2.01	0.17		0.48			3	2.66	14.75		17.10		
	Bh. Soory		1.07	0.14			0.15		3	1.36	16.51	11.59	17.60	13.79	
Khowlna	Hetampore	0.44	0.64		0.23		0.85		4	2.16	18.76	12.23	19.73	13.93	
	Rampore Haut	1.15			0.30	0.04			3	1.40	17.34	11.51	19.80	13.32	
	Bolpore			1.66		0.29			2	1.45	16.88		19.64		
	Murari	0.25	1.20			1.04	0.15		4	2.64	11.46		13.23		
	Ranaghat						0.73		1	0.73	15.77	10.72	18.18	15.65	
Moorshedabad	Kishnaghat			0.10		0.30	0.18		3	0.58	14.79	9.83	19.96	12.63	
	Choodanga		4.19	1.00		0.05			3	1.24	16.22	16.27	13.79	14.79	
	Meherpore		0.58	0.65		0.45			3	1.08	12.42	10.76	14.57	14.04	
	Kooshtea			0.29		0.32	0.11		3	0.72	19.01	14.81	16.69	18.06	
	Satkira			0.02		0.03	1.04	0.01	4	1.10	14.46	14.19	22.40	17.97	
Jessore	Bagirhat			0.15	0.37	0.46	0.17		4	1.15	21.84	16.31	27.39	19.61	
	Khowlna			0.18	0.26	0.10	0.21		4	0.75	16.31	14.18	20.54	16.97	
	Nakipore			0.17	0.20		0.30		3	0.67	16.08		22.79		
	Rampal				0.21	0.72	0.43		3	1.36	16.90		22.41		
	Narail	0.02			0.75	0.24		0.10	4	3.11	15.54	11.83	22.33	14.76	
Chittagong	Jessore	0.04		0.36	0.13	0.04		0.45	5	1.02	20.54	13.94	22.57	17.42	
	Jhenidah								5	Nil	16.54	13.96	12.26	17.45	
	Masoorah	0.52		0.16	0.22	0.23	0.05	0.07	6	1.25	12.45	12.59	16.77	16.71	
	Bongong					0.30	0.25		2	0.55	11.07	11.46	15.67	14.47	
	Kandi	0.31	0.54	0.18			0.30		4	1.33	12.70	11.16	14.42	13.75	
Chittagong Hill Tracts	Berhampore		0.10	0.59		0.14			3	0.83	10.93	10.99	11.44	14.12	
	Lalbagh	0.20	0.04	0.01		0.03		0.06	5	0.34	10.94	9.93	12.58	13.29	
	Azingunge			0.26	0.09		0.30	0.06	3	0.56	13.72	10.82	18.39	14.13	
	Jungipore	0.45	0.42		0.10	0.14	0.22		7	2.06	18.03	10.24	13.53	13.25	
	Lalgaola	0.23		0.15		0.15	0.55	0.20	5	1.50	11.35	11.54	17.77	15.03	
Backergunge	Jingunge		0.09			0.26	0.07		4	0.65	12.55		17.15		
	Akorigunj			0.24		0.47	0.07	0.29	4	1.07	12.85		16.68		
	Patkabari	1.60	0.10			0.55			3	1.65	14.15		15.05		
	Cor's Bazar	0.02	1.32			0.04			3	0.32	16.98	38.02	18.76	44.10	
	Chittagong	0.02					0.24	0.26	3	0.52		27.98		52.13	
Chittagong Hill Tracts	Kutubdia	0.03	0.61						4	2.90	15.22		17.74		
	Satkania	0.60	0.48				1.00	0.82	4						
	Rangamati	0.45	0.18			0.42	0.36	0.30	5	1.80	15.28	21.20	20.44	25.67	
	Ruma	0.47	0.05									21.82		25.67	
	Patuakhally	0.45	0.05	0.18			0.52		4	1.20	17.80	25.08	23.85	29.54	
Backergunge	Porozopore	0.26		0.46	0.21	0.20	0.22	0.05	6	1.40	15.62	18.97	24.23	22.35	
	Burrisa	0.10			1.09	0.45	0.66	0.70	5	3.90	21.24	18.13	27.37	22.21	
	Bhola	1.49			0.81	0.28	0.65		4	2.63	12.75	23.92	19.24	27.45	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of June.	Average total rainfall from 1st of June.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 28th June.	Sunday, 29th June.	Monday, 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Number of rainy days.	of Rainfall week.				
AST BENGAL -continued.	Noakholly	Gournaddi	0'11	0'07	0'35	0'75	0'83	5	2'10	15'77	?	16'87	P
		Bauphal ..	1'80	0'04	0'31	1'09	4	3'24	14'18	?	20'92	P
		Noakholly ..	0'27	0'03	0'63	0'25	0'30	5	1'48	17'95	28'92	25'36	33'60
		Fenny ..	0'20	0'70	0'72	0'30	0'37	5	2'29	24'10	31'64	32'90	36'47
	Furreedpore	Harishpore ..	3'00	0'52	0'15	0'56	0'20	5	5'03	19'20	?	26'28	?
		Ramganj	0'52	0'15	0'56	0'20	5	5'03	19'20	?	26'28	?
		Madaripore	0'57	0'54	0'20	0'11	0'08	5	1'50	8'55	14'40	13'42	18'06
		Furreedpore ..	.....	0'25	.....	.....	0'18	0'48	3	0'91	11'53	13'64	13'20	18'06
	Dacca	Gomundo ..	0'35	0'05	0'11	0'06	4	0'57	8'04	12'81	13'02	16'53
		Munshigunge ..	3'00	0'35	0'23	0'21	4	3'81	14'61	17'23	25'04	21'57
		Dacca ..	0'14	0'03	0'07	0'07	3	0'24	11'18	14'67	19'62	18'90
		Narainkunge ..	1'70	0'18	0'07	3	1'95	13'07	16'96	23'04	20'67
	Hill Tipperah	Manickkunge	0'08	0'73	2	0'81	16'20	10'78	22'04	14'69	?
		Joydebpore ..	0'24	0'13	0'45	3	0'82	14'08	?	24'11	?	?
		Agartola ..	0'12	0'72	3'25	3	4'09	20'15	15'93	27'43	20'29
		Tipperah	0'06	1'16	0'20	1'20	4	2'62	16'48	20'86	25'38	25'38
	Mymensingh..	Chandpore	0'06	0'70	0'36	0'36	3	1'32	16'71	18'69	22'80	21'94
		Brahmunberia ..	0'96	0'03	0'10	0'35	0'21	0'63	6	2'31	14'02	16'43	21'19	?
		Ramchandrapore ..	1'50	1'86	1'08	1'32	4	5'82	19'13	?	23'70	?
		Nasirnagar	0'50	1	0'50	10'18	?	17'32	?
		Daudkandi	1'02	1	1'02	10'85	?	13'76	?
		Kasba	?	?	?	?
		Laksham	2'10	2'52	0'10	3	4'72	21'12	?	28'18	?
		Kishoregunge ..	0'22	0'42	0'03	0'80	4	1'56	19'64	20'27	27'47	25'16
Atia (Tangail) ..		.....	.....	.....	.....	.....	0'15	0'15	1	0'15	11'16	14'01	22'46	17'59
Mymensingh ..		0'07	0'06	0'12	.....	.....	0'32	4	0'57	20'78	20'73	17'31	26'06	?
Jamulpore ..		.....	.....	0'31	.....	0'23	.....	2	0'54	23'03	15'91	18'61	20'13	?
Netrakona ..		0'55	0'16	0'56	.....	.....	0'25	4	1'52	26'06	23'54	32'23	29'74	?
Subornakhailly ..	.....	.....	.....	.....	.....	1'63	1	1'63	10'82	?	17'37	?	?	
Durgapore ..	.....	.....	1'50	.....	.....	4'30	2	5'80	26'53	?	41'56	?	?	
Sherepore Town ..	0'05	.....	.....	.....	.....	0'05	3	0'18	18'20	?	23'82	?	?	
Deuaganj ..	0'20	.....	.....	.....	.....	.....	1	0'20	17'59	?	26'73	?	?	
NORTH BENGAL.	Pubna	Pubna ..	.....	.....	0'05	.....	.....	0'32	2	0'37	11'65	12'41	15'16	16'07
		Sarakunge ..	.....	0'24	.....	0'22	.....	0'02	4	0'60	9'80	12'53	15'61	16'47
	Bogra	Sherepore ..	.....	.....	0'17	.....	0'47	.....	2	0'64	16'59	13'73	20'38	18'81
		Nowkaila ..	.....	0'12	0'06	.....	.....	0'16	3	0'34	12'31	13'92	18'20	17'72
		Bogra ..	.....	.....	0'58	.....	.....	.....	1	0'58	13'80	16'10	17'84	20'95
		Panchbibi ..	0'90	.....	.....	.....	.....	.....	1	0'90	23'27	13'37	27'03	17'98
	Rajshahye	Beaulah	0'25	0'50	0'31	0'05	4	1'11	17'39	11'66	20'87	14'17
		Natore ..	.....	0'03	.....	.....	.....	0'03	2	0'06	21'31	11'88	28'11	15'45
		Naogaon ..	.....	.....	0'06	0'10	.....	.....	2	0'76	16'74	14'76	19'57	18'09
		Lalpor ..	.....	0'02	.....	0'05	0'50	.....	3	0'57	8'06	?	11'06	?
	Maldah	Manda ..	.....	.....	.....	.....	.....	.....	Nil	Nil	8'56	?	10'50	?
		Maldah ..	0'13	0'22	0'34	.....	0'12	.....	4	0'81	11'62	12'90	14'87	15'30
Chanchal ..		2'00	0'44	0'06	.....	0'19	.....	4	2'09	11'21	14'14	12'81	17'29	
Gajol ..		0'70	0'90	0'66	.....	.....	.....	3	2'26	13'48	?	15'53	?	
Dinapore	Sitganj ..	0'60	0'73	0'08	.....	.....	0'22	4	1'79	13'97	?	19'11	?	
	Mohadebpore ..	0'08	0'42	.....	.....	.....	.....	2	0'50	13'91	14'53	16'93	13'90	
	Churamon ..	3'45	0'17	.....	.....	0'21	.....	3	3'83	18'29	13'43	24'70	16'53	
	Raigunge ..	1'32	1'03	.....	.....	.....	.....	2	2'95	17'02	16'55	19'76	20'31	
Rangpore	Dinapore ..	1'18	.....	.....	.....	.....	0'18	2	1'36	17'99	18'27	19'27	23'27	
	Raichanhat ..	0'90	.....	.....	.....	.....	0'13	2	1'03	15'94	14'55	19'81	19'74	
	Thakurgaon ..	2'42	.....	.....	.....	0'32	0'31	0'26	4	3'31	31'45	?	33'41	?
	Bhawaniganje (Gyabanda) ..	.....	0'10	.....	.....	.....	0'15	0'10	3	0'35	24'05	17'95	28'60	23'40
Jalpigore	Rangpore ..	2'20	.....	.....	.....	1'09	.....	0'12	3	3'41	26'30	21'65	29'26	28'60
	Kurigram ..	0'04	.....	0'06	.....	0'10	.....	0'60	4	0'80	31'71	25'18	35'30	33'39
	Bagdoga ..	1'26	.....	.....	.....	0'75	0'12	0'04	4	2'17	33'07	28'68	38'91	37'48
	(Niphamar) ..	.....	.....	.....	.....	.....	0'23	1	0'23	21'86	?	29'20	?	
Cooch Behar..	Ulipore ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Jalpigore ..	1'37	0'05	0'04	0'04	.....	0'04	1'71	6	3'25	42'61	32'35	45'96	39'08
	Aipore Doar ..	7'02	0'02	.....	.....	.....	0'01	4'93	4	12'88	60'24	?	63'60	?
	Falacotta ..	3'31	.....	.....	.....	0'03	.....	2'67	3	6'03	47'49	?	49'62	?
Darjeeling Hill.	Debiganj ..	3'20	.....	0'07	.....	.....	0'30	0'19	4	3'76	33'12	?	40'13	?
	Bhagatpore (Nagrakatta) ..	2'35	0'41	0'03	0'17	4'24	.....	5'25	6	12'45	39'05	?	45'81	?
	Dinhat ..	1'16	0'03	0'05	0'02	.....	.....	0'61	5	1'87	41'37	31'68	44'18	41'38
	Cooch Behar ..	3'86	.....	.....	.....	.....	0'53	2'00	3	6'39	50'43	40'50	55'15	40'40
Purneah	Miekgiganje ..	1'25	0'43	0'21	.....	.....	0'11	1'06	5	3'06	45'28	30'90	51'22	39'68
	Matabhanga ..	.....	0'13	.....	.....	.....	2'37	0'41	3	2'91	46'85	35'08	50'77	43'02
	Buxa ..	4'02	0'20	0'01	.....	2'43	4'05	1'56	6	12'57	62'13	53'83	68'43	67'51
	Silliguri ..	1'97	0'25	0'57	.....	0'37	1'36	2'98	6	7'60	37'28	32'13	43'39	38'29
North Bhagul-pore.	Darjeeling ..	3'66	0'54	0'32	.....	0'70	0'15	0'23	6	5'60	32'40	28'26	33'85	32'73
	Kalimpore ..	2'10	0'39	0'05	.....	1'05	.....	0'45	5	4'04	23'08	21'40	24'76	24'23
	Kurseong ..	4'75	1'35	1'74	.....	1'92	0'20	1'48	6	10'44	42'97	?	50'17	?
	Kisongganje ..	2'94	0'50	.....	.....	.....	0'27	.....	3	4'01	25'69	18'85	29'03	22'95
Durbhunga	Arrarrah ..	0'43	0'25	.....	.....	0'22	0'70	.....	5	1'75	14'42	16'62	17'55	19'14
	Purneah ..	1'22	0'76	0'01	.....	.....	0'11	0'01	5	2'11	20'25	13'47	23'19	16'30
	Gondwara ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Balarampore ..	4'05	0'40	.....	.....	.....	.....	.....	2	4'45	16'60	?	18'05	?
North Bhagul-pore.	Hatiari ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Kaliaganj ..	2'00	.....	.....	.....	.....	.....	.....	1	2'00	12'15	?	31'17	?
	Maddapore ..	0'75	0'68	.....	.....	.....	.....	.....	2	1'43	13'61	10'63	16'41	13'09
	Scopool ..	0'72	0'07	0'17	.....	0'50	.....	.....	4	1'46	9'17	11'19	10'29	13'40
Durbhunga	Protaganj ..	.....	0'09	.....	0'20	0'50	0'03	0'08	5	0'90	11'60	?	12'23	?
	Tajpore ..	0'82	.....	0'18	0'05	.....	0'06	.....	4	1'11	8'89	9'54	9'57	10'67
	Durbhunga ..	0'55	0'30	0'48	.....	.....	.....	0'18	4	1'51	11'28	9'93	12'71	11'25
	Madhubani ..	0'00	0'01	0'11	0'64	.....	.....	.....	4	4'36	13'27	10'57	14'93	12'24
Mozafferpore	Bahera ..	0'74	1'10	.....	.....	.....	.....	.....	2	1'84	12'53	?	14'73	?
	Kochera ..	0'10	0'40	.....	0'10	.....	.....	.....	3	0'60	10'70	?	10'70	?
	Sitamarhi ..	0'53	0'77	1'08	.....	.....	.....	.....	3	1'98	8'37	10'09	10'16	11'49
	Mozafferpore ..	0'63	0'07	.....	.....	.....	.....	.....	2	0'70	9'12	9'85	10'60	11'29
Mozafferpore	Ilalipore ..	0'17	.....	.....	.....	.....	.....	.....	1	0'17	7'08	8'35	10'24	9'58
	Fars ..	.....	0'86	.....	.....	.....	.....	.....	1	0'86	9'62	?	10'27	?
	Mahua ..	.....	0'30	.....	0'05	.....	.....	.....	2	0'35	10'38	?	11'71	?
	Sisnar ..	1'35	0'90	.....	.....	.....	.....	.....	2	2'25	11'59	?	12'59	?
Mozafferpore	Pupri ..	1'00	0'72	.....	.....	.....	.....	.....	2	1'72	11'69	?	12'59	?

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 4th of July 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rainfall since 1st of June.	Average total rainfall from 1st of June.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 28th June.	Sunday, 29th June.	Monday, 30th June.	Tuesday, 1st July.	Wednesday, 2nd July.	Thursday, 3rd July.	Friday, 4th July.	Number of rainy days.	of Rainfall week.				
NORTH BHAR	Chumpan...	Motihari ...	0'55	.....	0'11	.....	0'05	.....	.....	3	0'71	11'54	0'52	18'03	10'97
		Bettiah ...	1'00	0'34	0'40	.....	.....	.....	.....	3	2'43	13'80	10'33	14'73	11'57
		Bogaha ...	1'04	1'03	0'09	0'32	.....	0'06	.....	5	2'59	17'05	?	17'06	?
	Sarun ...	Burhura ...	0'72	3'34	0'24	0'03	.....	.....	.....	4	4'35	14'41	?	15'93	?
		Gopalgunge ...	1'30	0'15	.....	0'50	.....	.....	.....	3	1'95	9'35	8'07	10'85	9'01
		Sewan ...	.....	.....	0'50	.....	.....	.....	.....	1	0'33	10'03	8'49	9'65	9'65
SOUTH BHAR	Shahabad ...	Chuprah ...	.....	.....	0'33	.....	.....	.....	.....	1	0'33	10'03	7'41	12'05	9'36
		Buxar ...	0'76	0'06	1'00	0'02	0'02	.....	.....	5	2'78	9'68	6'06	10'92	6'76
		Dehree ...	0'17	.....	0'57	0'02	0'22	.....	.....	4	0'98	10'56	5'27	10'56	6'44
	Gya ...	Bhabooah ...	.....	1'08	.....	0'30	.....	.....	.....	2	2'25	10'06	6'64	10'06	7'23
		Sasseram ...	0'28	.....	0'50	.....	0'34	.....	.....	3	1'13	10'27	8'16	10'56	6'86
		Arrah ...	0'12	0'17	0'06	0'08	.....	0'02	.....	5	1'35	12'04	7'47	13'48	8'04
	Patna ...	Mohaniah ...	0'50	1'30	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Aurungabad ...	0'45	.....	0'11	.....	0'53	.....	.....	3	1'09	10'26	7'40	10'60	6'70
		Gya ...	0'01	.....	0'04	0'26	0'48	.....	.....	4	0'79	11'89	7'71	11'90	9'12
	Monghyr ...	Nowadah ...	1'52	.....	0'70	.....	.....	.....	.....	2	2'22	16'67	7'65	17'70	9'10
		Jehanabad ...	0'42	0'02	0'02	0'62	.....	.....	.....	4	1'08	15'77	6'59	15'03	7'59
		Arwal ...	.....	.....	.....	.....	.....	0'50	.....	1	0'50	9'74	?	10'63	?
	South Bhagulpore.	Daudnagar ...	.....	.....	0'20	0'50	.....	.....	.....	2	0'70	8'24	?	4'51	?
		Sherrghati ...	0'20	.....	0'61	1'25	0'50	.....	.....	4	2'56	8'74	?	8'74	?
		Rajauli ...	0'32	0'35	0'45	.....	0'16	.....	.....	4	1'28	13'20	?	13'20	?
	Patna ...	Pakri Barawan ...	2'80	.....	.....	0'05	.....	.....	.....	2	3'45	19'78	?	20'13	?
		Patna ...	0'18	1'00	.....	0'08	0'16	.....	.....	4	1'42	8'04	8'63	9'51	10'24
		Dinapore ...	0'80	.....	.....	.....	.....	.....	.....	1	0'80	7'58	8'25	9'48	9'48
	Monghyr ...	Behar ...	.....	.....	0'09	0'03	0'21	.....	.....	3	0'33	11'43	8'40	13'35	9'36
		Barrh ...	0'50	.....	.....	.....	.....	.....	.....	1	0'50	7'25	7'25	7'95	8'64
		Bickram ...	0'39	.....	0'24	.....	0'12	.....	.....	3	0'75	12'04	?	14'02	?
	South Bhagulpore.	Hilsa ...	2'56	.....	.....	0'02	.....	.....	.....	2	3'48	15'34	?	17'59	?
		Bogooeral ...	1'95	0'70	0'10	.....	.....	0'21	.....	4	2'96	10'30	8'29	11'73	9'76
		Monghyr ...	0'25	0'38	.....	.....	0'35	.....	.....	3	0'98	14'85	8'59	17'45	10'23
	South Bhagulpore.	Jamul ...	1'36	.....	.....	0'44	.....	.....	.....	2	1'80	18'85	8'63	20'05	10'09
		Gogri ...	.....	.....	0'81	.....	0'67	.....	.....	2	1'48	13'78	?	15'72	?
		Sheikpura ...	1'82	.....	0'19	.....	.....	.....	.....	2	1'92	14'89	?	15'79	?
	Sonthal Per-gunnahs.	Bhagulpore ...	0'18	0'14	0'25	0'16	.....	.....	.....	4	0'73	11'06	9'15	13'39	10'79
		Banks ...	0'34	0'15	0'58	.....	.....	0'02	.....	4	1'33	9'81	9'29	12'59	11'16
		Kolgong ...	3'49	0'21	0'38	.....	0'30	.....	.....	5	4'18	15'22	?	17'23	?
	Sonthal Per-gunnahs.	Bangaon ...	1'73	0'84	.....	.....	.....	0'28	.....	3	2'85	11'07	?	12'77	?
		Rajmehal ...	1'26	2'07	.....	.....	.....	.....	.....	2	3'33	13'89	12'81	15'99	15'74
		Godda ...	1'10	0'25	.....	.....	.....	0'08	.....	3	1'43	10'49	8'23	14'04	10'64
	Sonthal Per-gunnahs.	Pakour ...	1'35	3'39	0'49	.....	0'05	0'19	.....	5	5'47	23'00	12'47	26'23	15'61
		Nya Doomka ...	0'14	0'23	0'11	.....	0'11	0'02	0'07	6	0'98	15'19	11'70	17'14	13'96
		Deoghar ...	0'80	.....	0'81	.....	0'03	.....	.....	3	1'64	10'08	10'50	12'29	13'51
	Sonthal Per-gunnahs.	Jamtara ...	0'19	.....	0'21	.....	0'39	0'09	.....	4	0'88	20'09	9'91	22'88	11'89
		Mohajama ...	1'56	.....	.....	.....	.....	.....	1'15	2	2'71	15'72	?	16'27	?
		Nantah ...	0'12	.....	0'17	.....	.....	.....	.....	?	?	?	?	?	?
CHUTIA NAG-PUR.	Hazariabagh ...	Pachamba ...	0'58	0'36	0'20	0'27	0'21	0'44	.....	6	2'26	19'12	9'41	20'50	10'96
		(Giridi) ...	.....	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Hazariabagh ...	0'10	0'07	1'12	1'16	1'11	0'15	0'06	7	3'77	11'40	9'69	12'26	11'13
	Lohardugga ...	Semtagurah ...	0'18	0'57	1'15	0'45	0'22	.....	.....	5	2'57	8'83	10'07	9'19	11'26
		Mahudi Hill's	.....	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Jhoomra Hills	.....	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
	Lohardugga ...	Barhi ...	0'64	.....	0'40	0'55	0'06	.....	.....	4	1'65	8'78	?	9'33	?
		Chatra ...	0'15	.....	0'70	0'03	0'80	.....	.....	4	1'68	8'13	?	8'63	?
		Karagdeha ...	0'30	0'11	.....	.....	.....	0'10	.....	3	0'51	15'63	?	17'70	?
	Lohardugga ...	Kamphar ...	.....	.....	0'50	1'50	0'30	.....	.....	3	2'30	9'74	?	12'36	?
		Lohardugga ...	.....	.....	0'22	0'06	0'21	.....	.....	3	0'49	8'61	9'76	8'82	11'90
		Ranchi ...	.....	.....	0'23	0'11	0'74	0'15	.....	4	1'83	8'99	10'52	11'36	12'22
	Singhbhum ...	Palamow ...	0'37	.....	0'45	.....	0'14	.....	.....	3	0'96	7'41	7'55	8'89	8'60
		Silli ...	0'90	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Batumat ...	.....	.....	1'70	.....	.....	.....	.....	1	1'70	7'47	?	7'62	?
	Singhbhum ...	Josseinabad ...	.....	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Garwah ...	1'52	1'40	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Chyebassa ...	.....	1'08	1'00	0'02	1'55	.....	.....	4	4'75	11'41	9'76	14'30	12'30
	Singhbhum ...	Chakradhar ...	.....	.....	.....	.....	.....	.....	.....	?	?	?	?	?	?
		Chateilla ...	2'50	0'07	0'00	1'30	0'38	.....	.....	5	4'85	13'14	?	16'22	?
		Baharagura ...	1'03	5'45	.....	0'41	0'74	0'36	.....	?	?	?	?	?	?
	Manbhoom ...	Parulia ...	0'11	0'74	.....	0'53	1'36	0'36	.....	5	3'10	15'03	10'24	17'65	12'31
		Gobindpore ...	0'03	0'02	0'03	.....	0'20	0'55	.....	5	0'83	12'49	8'88	12'86	10'13
		Kaghnath ...	0'07	0'41	0'20	0'20	0'40	0'70	.....	6	2'04	15'72	?	17'81	?
	Manbhoom ...	Barrabhoon ...	0'20	1'52	0'02	0'15	0'48	.....	.....	5	2'37	8'09	?	13'22	?
		Jhals ...	0'67	0'82	.....	0'62	.....	.....	.....	3	1'91	10'81	?	13'47	?
		Onas ...	0'81	0'50	0'55	0'12	0'38	0'50	.....	6	2'86	15'56	?	16'84	?

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 8th July 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
4TH OF JULY 1890.**

THE weather during the present week has been affected throughout by the depression which formed near the head of the Bay about the beginning of July. Though the cyclonic disturbance crossed the coast late on the 1st or early on the morning of the 2nd, moving rapidly in a westerly direction into Central India, the after-effects in the form of violent atmospheric oscillations continued till the end of the week, the waves moving from east to west across Bengal and the northern half of the Bay.

The depression began to form on June 28th, the first day of the present week, appearing as a local shallow depression over South-West Bengal and Orissa, the lowest pressure after a slow fall in these parts being 29·585 inches at Balasore. Pressure distribution over Bengal was very nearly normal, a small excess of two-hundredths of an inch being reported from the stations in the north-west corner of the Bay, while towards the east coast it increased to nearly a twentieth of an inch. Westerly winds were blowing at Cuttack and False Point, and the easterly element in directions at eastern stations had become more pronounced. Rainfall was generally light and local in the south-west corner of the province, but was heavy and general in North Bengal and Behar. On the 29th the fall of pressure was brisk in all districts except to the west of Behar, and was most rapid in North Bengal and Assam, but when compared with the normal distribution, a diffused shallow depression covered the whole of the northern half of the Bay, extending from Diamond Island in a north-westerly direction as far as Ranchee, while rainfall becoming more general within the shallow depression, was more local and much lighter in the other parts of the province. Wind circulation was more distinctly cyclonic, and the centre lay about midway between Balasore and Calcutta. After this a somewhat rapid deepening occurred towards the east of the low-pressure area, and on the 30th the centre of lowest pressure was to the east of False Point and north of Saugor Island. The largest changes were in Arakan, the fall at Akyab being over a tenth of an inch, and in consequence of the rapid fall in East and North Bengal, a trough of low pressure extended from the Bay in a northerly direction, so that the storm seemed likely to move in that direction. Weather was stormy with heavy rain squalls over the northern half of the Bay to the rear of the depression, but in Bengal the only important falls of rain were in Chutia Nagpur and South Behar, East and North Bengal being almost rainless. On the 1st July the storm showed further signs of development and was moving slowly towards Orissa, so as to pass over False Point. Northerly winds were blowing at all the Orissa stations and in Chutia Nagpur and South-West Bengal as far north as Ranchee and Berhampore. Pressure was lowest at False Point, measuring there 29·39 inches, and gradients were much steeper over the Bay, the difference between False Point and Tavoy being half an inch. The slow westerly motion of the centre continued, and it passed over False Point about midnight, the lowest pressure reported from that station being 29·09 inches. On this day fairly heavy rain was falling at all the Orissa stations, wind force was steadily increasing, and after the centre crossed the coast and southerly winds set in, a strong gale blew to the north of Gopalpore. A very rapid rise of pressure followed, and by 8 a. m. on the 2nd there had been a rise of half an inch at False Point, while in the east of the Bay and over the eastern districts of Bengal the very rapid rise of from ·15 inch to ·2 inch was reported. This rapid rise continued on the following day, and there was then over the whole of Bengal very high pressure, excess varying from ·1 inch in East Bengal to ·2 inch in Orissa, so that from being half an inch below the normal, an excess of two-tenths accumulated in about 28 hours. This high pressure prevented the influx of moist winds to South-West Bengal, which was to be expected after the westerly motion of the storm, and though easterly winds still blew in Behar, a westerly current was setting in, and after the rapid fall of pressure on the 4th in the east and north, became general in all districts of the province. Rain was practically absent on Friday over the western half of Bengal, and moderate amounts were falling in East and North Bengal. The weather over the Bay rapidly improved, and by the afternoon of the 2nd only moderate winds were blowing.

Pressure—Changes, as detailed above, have been very rapid and sudden, especially after the passage of the depression. As there has been a large defect at one time, and a large excess at another, the means for the week have been very little influenced, and thus in Orissa, where the largest difference from the normal would be expected, there is defect of only two-hundredths of an inch. In the other districts the means are very nearly normal, generally differing from it by only a few thousandths of an inch.

Temperature—Has been low in the western districts, but changes have been of very little importance and of the usual oscillatory nature, with a rather more rapid and general rise towards the end of the week. Defect is 2° in Chutia Nagpur, 1·2° in Orissa, while in South Behar and South-West Bengal it is about half a degree. In Assam, North Bengal and North Behar excess is about 1°, and in East Bengal 6°.

Rainfall—Has been largely below the normal except in Orissa, where the heavy rainfall during the passage of the storm has caused an excess of 3·4 inches, the average fall being 220 per cent. of the normal. In East Bengal less than half the normal amount has fallen, and in South-West Bengal, North Bengal, and North Behar the proportion is very little larger. The fall in Orissa is 6·25 inches, in Chutia Nagpur 2·17 inches, while in all the other districts

the average fall is very nearly 1·5 inches slightly over this amount except in South-West Bengal, where it is 1·3 inches. The heaviest falls reported from Orissa are—Pooree 9·6 inches, Balasore 8·4 inches, Bhuddruck 6 inches, and Kendrapara 5 inches. Very heavy rain fell in North Bengal on Saturday, the 28th of June, Alipore Dooar reporting 8 inches and several other stations from 3 to 4 inches. In these districts, viz., Julpigoree, Cooch Behar, and the Darjeeling Hills, falls were much lighter and more local till the last day of the week, when some heavy rain was again reported. Generally over Bengal falls have very seldom been over 3 inches, and frequently under 1 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 4th of July 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of June.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	93·9	73·3	87·1	78·8	83·0	-1·2	6·23	2·84	+3·41	4·7	3·7	+1·0	15·26	10·06	18·45	12·23
South-West Bengal ...	93·8	75·6	89·9	79·0	84·5	-0·4	1·31	2·26	-0·95	3·7	4·2	-0·5	14·86	11·49	18·97	14·25
East Bengal	91·7	71·9	88·1	77·9	83·0	+0·6	1·58	3·33	-1·80	3·8	5·0	-1·2	17·21	20·08	23·78	24·51
North Bengal	95·8	74·6	90·2	79·3	84·7	+1·0	1·71	3·27	-1·56	3·0	4·8	-1·8	23·68	19·53	27·72	24·98
North Bihar	95·3	75·9	91·2	79·2	85·2	+0·2	1·66	3·01	-1·35	3·0	4·1	-1·1	12·45	10·79	14·48	12·64
South Bihar	90·0	76·3	90·5	79·1	84·8	-0·6	1·60	2·58	-0·98	3·0	4·0	-1·0	12·56	8·46	14·10	10·05
Chutia Nagpur	87·5*	70·9*	83·3*	73·3*	77·5*	-2·0*	2·17	2·83	-0·66	4·5	4·4	+0·1	11·06	9·81	12·29	11·53
Assam	97·1	76·0	89·5	78·0	83·8	+0·9										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 8th July 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
29th June to 5th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
June	29th	154.5	5.3	29.482	83.6	89.3	12.5	76.8	79.9	0.974	78.4	85	ESE and calm ...	96	0.11	Partially cloudy, o, p, t, d, ●.
"	30th	146.4	3.0	.449	83.4	87.9	9.7	76.2	79.1	.938	77.3	82	ENE and calm ...	83	0.02	Partially cloudy, d.
July	1st	146.5	6.2	.458	83.6	87.8	8.1	79.7	78.4	.903	76.1	79	NE by E, ENE and E	308	0.05	Partially cloudy, o, d, /.
"	2nd	144.0	1.7	.630	82.6	85.8	8.1	77.7	79.2	.950	77.7	85	E, ESE and SE ...	180	0.12	Chiefly cloudy, o, t, d, p.
"	3rd	156.7	5.1	.707	84.4	89.5	12.3	77.2	80.4	.986	78.8	84	SSW, SW and calm	82	Nil	Partially cloudy, o.
"	4th	143.5	0.2	.609	84.8	89.7	9.2	80.5	79.6	.942	77.4	79	SW and WSW ...	114	0.17	Cloudy, o, p.
"	5th	128.6	Nil	.576	82.0	87.8	10.5	77.3	78.4	.925	76.9	85	Variable and calm	42	1.86	Cloudy, o, g, d, t, p.

The mean pressure of the seven days ... 29.559
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.539

The total number of hours of bright sunshine ... 21.5
 The maximum possible number of hours of sunshine ... 94.2

The mean temperature of the seven days ... 83.5
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 83.5
 The extreme variation of temperature ... 12.9
 The maximum temperature ... 89.7

The highest velocity of the wind in one hour ... 22

The highest pressure of wind on one square foot ... Approximately 5 lbs.

The mean relative humidity ... 83

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 85

The total fall of rain from 29th June to 5th July 1890 ... 2.33

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.59

The total fall from 1st January to 5th July 1890 ... 23.04

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 24.05

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, / strong wind, ⊕ solar corona.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 7th July 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of June 1890.

	Inches.	Dats.
The mean pressure at 10 A.M. during the month ...	29.596	
The mean temperature at 10 A.M. during the month ...	87.6	
The highest temperature during the month ...	97.0	1st, 2nd, 3rd.
The lowest temperature during the month ...	72.2	6th.
The absolute range of temperature during the month ...	24.8	
The mean daily range of temperature during the month ...	12.9	
The greatest range of temperature in one day during the month ...	19.0	2nd.
The mean 10 A.M. humidity during the month ...	78	
The mean 10 A.M. vapour pressure during the month ...	1.016	
The total rainfall of the month ...	15.05	
The greatest fall in 24 hours ...	4.00	22nd.
The number of rainy days in the month ...	21	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 7th July 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 29th June to 5th July 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
June 1890...	29th ...	29.525	84.3	91.0	13.4	77.6	84.6	79.5	.941	77.4	79	0.21
" "	30th ...	.500	84.1	89.4	10.6	78.8	85.6	79.5	.927	76.9	76	0.16
July	1st ...	.486	84.5	89.0	9.0	80.0	88.2	79.5	.891	75.7	67	...
" "	2nd ...	.681	82.8	87.0	8.5	78.5	83.1	79.5	.961	78.0	85	0.20
" "	3rd ...	.758	85.2	91.6	12.8	78.8	87.1	82.3	1.040	80.4	81	0.04
" "	4th ...	.657	86.0	91.0	10.0	81.0	88.4	82.0	1.007	79.4	75	...
" "	5th ...	.615	84.2	89.5	10.7	78.8	83.6	81.0	1.025	80.0	89	0.15

The mean 10 A.M. pressure of the seven days ... 29.603

The mean temperature of the seven days ... 84.4

The extreme variation of temperature ... 14.0

The maximum temperature ... 91.6

The mean 10 A.M. relative humidity of the seven days ... 79

The total fall of rain from 29th June to 5th July 1890 ... 0.76

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 7th July 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 21st June 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 21st June 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 14·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4·2 lower than the average rate of the corresponding weeks of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	21·1	16·0	18·0	17·3	19·3	18·4	14·2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.		31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.
Burdwan	9·1	21·4	32·0	7·6	Narainganj	16·6	24·8	12·4	58·9
Midnapore	18·6	18·6	13·9	3·1	Chittasong	16·4	11·7	9·4	23·5
Hughli and Chinsurah	37·7	26·3	19·7	14·8	Comillah	23·1	15·4	38·5	11·5
Serampore	21·6	23·6	23·6	29·4	Patna	3·6	6·2	7·5	7·8
Utterpara	18·9	...	18·9	9·4	Gya	19·1	19·8	16·4	12·3
Howrah	14·3	18·9	10·9	15·5	Arrah	27·5	13·9	8·4	17·9
Ball	14·0	7·0	10·5	10·5	Mozufferpore	15·8	10·9	7·3	18·2
Kishnagar	7·6	15·1	15·1	9·5	Durbhanga	18·1	11·0	20·5	17·3
Ranaghat	6·0	6·0	12·0	...	Chupra	11·1	9·1	4·0	3·0
Santipore	14·0	16·5	17·5	8·8	Bhagulpore	23·5	10·9	12·7	17·2
Jessore	6·1	...	6·1	...	Monghyr	19·9	17·2	20·8	23·5
Rampore Beaulah	21·0	23·6	31·5	36·8	Purneah	3·5	17·3	13·9	...
Darjiling	7·4	22·2	...	59·3	Poori	14·7	18·9	21·0	29·4
Dacca	11·0	10·4	9·1	7·8					

It will be seen that last week the highest birth-rate was returned from Darjiling (59·3) and the lowest from Chupra (3). No births were registered during the week in, Ranaghat, Jessore and Purneah towns.

DEATHS.

THE deaths registered during the week under review correspond to an annual rate of 26·9 per 1,000 of the population. The rate of the week is 2·4 higher than the average rate of the corresponding weeks of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	34·0	24·8	16·9	23·9	23·8	24·5	26·9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.		31st May 1890.	7th June 1890.	14th June 1890.	21st June 1890.
Burdwan	25·9	16·8	19·8	15·3	Narainganj	5·3	24·8	24·8	16·6
Midnapore	29·4	20·1	16·5	20·1	Chittasong	11·7	30·5	11·7	16·4
Hughli and Chinsurah	27·9	32·8	29·5	19·7	Comillah	30·8	30·2	24·7	11·5
Serampore	29·4	13·7	23·6	15·7	Patna	15·6	21·4	17·5	15·3
Utterpara	9·4	47·2	18·9	28·3	Gya	32·1	42·4	27·3	34·8
Howrah	13·2	12·6	20·6	12·0	Arrah	32·3	21·5	13·2	37·1
Ball	21·1	10·5	14·9	17·5	Mozufferpore	38·9	26·8	28·9	21·2
Kishnagar	11·4	9·5	9·5	...	Durbhanga	33·0	26·7	33·0	14·1
Ranaghat	12·0	12·0	6·0	6·0	Chupra	15·1	11·1	12·1	18·1
Santipore	5·2	8·8	14·0	15·8	Bhagulpore	26·2	22·6	24·4	17·2
Jessore	6·1	49·0	12·3	36·7	Monghyr	19·9	26·2	18·1	10·4
Rampore Beaulah	26·3	23·6	23·6	23·6	Purneah	16·4	27·7	3·5	...
Darjiling	14·8	59·3	14·8	37·9	Poori	62·9	142·7	125·9	363·9
Dacca	16·2	30·5	24·0	17·5					

It will be seen that last week the highest mortality occurred in the town of Poori (363) and the lowest in Ranaghat (6). No deaths were registered during the week in Kishnagar town.

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Poori	... 241.3	Poori	... 86.0	Poori	... 18.9
Arrah	... 15.5	Jessore	... 36.7	Gya	... 12.9
Mozufferpore	... 13.4	Darjiling	... 29.6	Midnapore	... 12.4
Durbhanga	... 5.5	Gya	... 21.2	Serampore	... 11.0
Patna City	... 4.5			Bhagulpore	... 10.9

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 8.3 from cholera, against 3.5 per 1,000 in the preceding week; 7 from small-pox against 8; 10.1 from fever, against 8.9; 2.2 from bowel-complaints, against 3; 4 from injury, against 7; and 5.2 from other causes, against 6 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 25.9	Christians	... 7.5	Under 1 year	... 168.0
Females	... 28.1	Hindus	... 30.1	1 and under 5 years	... 35.2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	92	Mahomedans	... 19.4	5 " 10 "	... 12.2
				10 " 15 "	... 14.0
				15 " 20 "	... 17.3
				20 " 30 "	... 12.8
				30 " 40 "	... 24.9
				40 " 50 "	... 30.7
				50 " 60 "	... 36.9
				60 years and upwards	... 48.2

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 7th July 1890.

1	2	3	4	5	6	7	8	9	10	11	12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.		BIRTHS.		MORTALITY ACCORDING TO—					Sex.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		Males.	Females.	Total.	Ratio of male births to every 100 female births.	DEATHS FROM—					RATIO PER 1,000 OF POPULATION PER ANNUM.	RATIO OF DEATHS PER 1,000 IN PREVIOUS WEEK.	Males.	Females.	RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						NUMBER OF—	Disease.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
							Males.	Females.	Total.	Small-pox.							Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Burdwan	...	18,053	16,017	34,086	65</

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
450	1. Grain ...	1,138	4,412.5	5,550.5	3,36,901	5,550.5	3,36,901	
1	2. Cotton ...	.....	4	4	565	4	565	
35	3. Oilseeds ...	6	462	468	53,071	468	53,071	
145	4. Salt ...	1,363	.....	1,363	1,51,443	1,363	1,51,443	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
12	6. Metal ..	34	7	41	32,675	41	32,675	
10	7. Building materials	53	.....	53	902	53	902	
493	8. Miscellaneous ...	1,740.5	1,949.4	3,689.9	8,39,936	3,689.9	8,39,936	
27	9. Fuel ...	179	99	278	3,369	278	3,369	
Rafts 2	10. Timber ...	95 c. ft.	.....	95 c. ft.	285	95 c. ft.	285	
...	11. Bamboos ...	.....	.....	.....	.....	.....	.....
1,173 & 2 rafts.	12. Total ...	{ 4,513.5 & 95 c. ft.	6,933.9	11,447.4 & 95 c. ft.	14,19,147	{ 11,447.4 & 95 c. ft.	14,19,147	
903 & 19 rafts.	13. Total of same month last year	{ 2,504 & 800 c. ft.	6,792 & 5,120 c. ft.	9,296 & 5,920 c. ft.	11,33,828	{ 9,296 & 5,920 c. ft.	11,33,828	
		Up.	Down.	Total.				Rs. A. P.
14. Total number of boats plying cargo No.		527	646	1,173	Total tollage of month—24+25+26 ...			6,565 13 0
14a. Empty boats and steamers No.		521	112	633	Total tollage of same month last year ...			5,321 8 6
15. Total number of boats plying passenger No.		506	822	1,328	Memorandum of Tollage.			
15a. Ditto empty boats ,,		8	5	13				
16. Total registered tonnage, cargo Tons		15,329.8	14,624.5	29,954.3				
17. Total registered tonnage, passenger Tons		153	167	320				
18. Ton-mileage		.....	.....	.....	1. Balance not recovered on the 1st of the month ...			Rs. A. P.
19. Estimated value of cargo Rs.		7,03,337	7,15,525	14,18,862				268 4 6
20. Number of passengers No.		64	91	155	2. Tollage per month ...			6,565 13 0
21. Rafts, bamboos C. ft.		.....	.....	.....	3. Total ...			6,834 1 6
22. Do., bullahs ,,		95	.....	95	4. Amount paid into treasury during the month ...			6,556 9 0
23. Estimated value of rafts Rs.		285	.....	285	5. Balance due at the end of the month ...			277 8 6
24. Tollage on boats ,,		2,904.6-6	3,659.14-6	6,564.5-0				
25. Compounded tollage on boats Rs.		.....	.....	.....	
26. Tollage on rafts ,,		1-8-0	.....	1-8-0				
27. Total tollage on boats per ton-mile* ...		.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	1-9-3				

* Boats in these rivers do not pay per mile.

Abstract for the month of May 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.		During the month.	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage	6,565 13 0	12,941 8 0	5,321 8 6	12,490 8 6

CALCUTTA,
The 8th July 1890.G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
212	1. Grain ...	2,041	430	2,471	1,04,353	2,471	1,04,353	
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	3	.....	3	210	3	210	
23	4. Salt ...	2	168	170	19,195	170	19,195	
9	5. Piece-goods ...	.....	39	39	30,900	39	30,900	
1	6. Metal ...	1	.....	1	450	.....	.....
36	7. Building materials ...	9	426	435	1,421	20	189	
646	8. Miscellaneous ...	146	375	521	56,736	520	56,631	
30	9. Fuel ...	67	83	150	915	146	880	
4 rafts	10. Timber ...	152 c. ft.	80 c. ft.	232 c. ft.	113	232 c. ft.	113	
7 „	11. Bamboos ...	650 „	375 „	1,025 „	64	1,025 „	64	
959 & 11 rafts.	12. Total ...	{ 2,269 & 802 c. ft.	{ 1,521 & 455 c. ft.	{ 3,790 & 1,257 c. ft.	{ 2,14,357	{ 3,369 & 1,257 c. ft.	{ 2,12,535	
825 & 6 rafts.	13. Total of same month last year.	{ 2,441 & 180 c. ft.	{ 781 & 623 c. ft.	{ 3,222 & 803 c. ft.	{ 2,05,656	{ 3,127 & 803 c. ft.	{ 2,04,585	
		Up.	Down.	Total.				Rs. A. P.
14.	Total number of boats plying cargo No.	459	500	959	Total tollage of month— 24+25+26 ...			5,643 8 3
15.	Total number of boats plying passenger No.	51	49	100	Total tollage of same month last year ...			4,812 4 6
16.	Total registered tonnage, cargo Tons	5,306	4,806	10,112	Memorandum of Tollage.			
17.	Total registered tonnage, passenger Tons	311	451	762				
18.	Ton-mileage ...	169,356	152,890	322,246				
19.	Estimated value of cargo Rs.	87,867	126,313	2,14,180				
20.	Number of passengers No.	229	1,695	1,924				
21.	Rafts, bamboos C. ft.	650	375	1,025	1. Balance not recovered on the 1st of the month			4,774 10 3
22.	Do., bullahs „	152	80	232	2. Tollage per month ...			5,643 8 3
23.	Estimated value of rafts Rs.	83	94	177	3. Total ...			10,418 2 6
24.	Tollage on boats „	2,957-15-6	2,672-15-9	5,630-15-3				
25.	Compounded tollage on boats Rs.	1-0-0	.....	1-0-0	4. Amount paid into treasury during the month			4,022 7 9
26.	Tollage on rafts „	7-8-0	4-1-0	11-9-0				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-3				
28.	Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-14-8	5. Balance due at the end of the month ...			6,395 10 9

Abstract for the month of May 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	5,643 8 3	11,817 3 0	4,812 4 6	10,399 1 9

CALCUTTA,
The 8th July 1890.G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
209	1. Grain ...	3,631	4	3,635	3,99,600	3,635	3,99,900	* For details, see next page.
4	2. Cotton ...	34	.....	34	18,050	34	18,050	
118	3. Oilseeds ...	1,694	.....	1,694	2,07,925	1,694	2,07,925	
143	4. Salt ...	365	1,807	2,172	2,12,905	2,172	2,12,905	
...	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
1	6. Metal ...	2	.....	2	1,950	2	1,950	
103	7. Building materials	4,361	69	4,430	81,767	4,430	81,767	
1,210	8. Miscellaneous*	7,020	84	7,104	8,84,520	7,104	8,84,520	
392	9. Fuel ...	10,053	124	10,177	79,261	10,177	79,261	
...	10. Timber ...	.....	.....	.....	.....	.....	.....
3 rafts	11. Bamboos ...	1,200 c. ft.	.....	1,200 c. ft.	200	1,200 c. ft.	200	
2,180 & 3 rafts	12. Total ...	{ 27,160 & 1,200 c. ft.	2,088	{ 29,248 & 1,200 c. ft. }	18,86,478	{ 29,248 & 1,200 c. ft. }	18,86,478	
2,083 & 1 raft.	13. Total of same month last year.	{ 25,388 & 50 c. ft.	3,310	{ 28,698 & 50 c. ft. }	21,38,663	{ 28,698 & 50 c. ft. }	21,38,663	
14. Total number of boats plying cargo	No.	2,038	142	2,180	Total tollage of month— 24+25+26 ...		Rs. A. P. 18,334 14 0	
14a. Empty	"	1,164	136	1,300				
15. Total number of boats plying passenger	No.	514	3	517	Total tollage of same month last year ...		17,477 9 0	
16. Total registered tonnage, cargo	Tons	78,255	5,582	83,837	Memorandum of Tollage.			
17. Total registered tonnage, passenger	Tons	1,014	8	1,022				
18. Ton-mileage	...	6,80,540	55,820	7,36,360	Rs. A. P.			
19. Estimated value of cargo	Rs.	17,29,753	1,56,525	18,86,278	1. Balance not recovered on the 1st of the month ...			276 0 3
20. Number of passengers	No.	2,430	21	2,451	2. Tollage per month ...			18,334 14 0
21. Rafts, bamboos	C. ft.	1,200	.....	1,200	3. Total ...			18,610 14 3
22. Do., bullahs	"	.....	.....	.....	4. Amount paid into treasury during the month ...			17,718 15 9
23. Estimated value of rafts	Rs.	200	.....	200	5. Balance due at the end of the month ...			891 14 6
24. Tollage on boats	"	16,962-13-6	1,369-12-6	18,332-10-0				
25. Compounded tollage on boats	Rs.	.....	.....	.....	
26. Tollage on rafts	"	2-4-0	.....	2-4-0				
27. Total tollage on boats per ton-mile	Rs.	.....	.....	C-0-4-78				
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	0-3-0				

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
87	(a) Jute ...	1,749	.....	1,749	2,20,387	1,749	2,20,387	
34	(b) Jaggery ...	420	.....	420	52,875	420	52,875	
13	(c) Sugar ...	54	.....	54	13,725	54	13,725	
1	(d) Tobacco ...	.....	7	7	1,400	7	1,400	
295	(e) Fish ...	92	.....	92	25,937	92	25,937	
5	(f) Hides ...	11	.....	11	2,400	11	2,400	
57	(g) Poultry ...	11	.....	11	9,280	11	9,280	
86	(h) Hay and straw ...	1,080	.....	1,080	22,680	1,080	22,680	
3	(j) Oil ...	.....	48	48	6,750	48	6,750	
17	(k) Earthenware ...	34	.....	34	474	34	474	
612	(m) Other miscella- neous ...	3,569	29	3,598	5,28,612	3,598	5,28,612	
1,210	Total Miscellaneous...	7,020	84	7,104	8,84,520	7,104	8,84,520	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing quantities of Goods carried during the month of May 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
759	1. Grain ...	5,017	14	5,031	4,71,473	5,031	4,71,473	* For details, see next page.
1	2. Cotton ...	3	.....	3	1,900	3	1,900
49	3. Oilseeds ...	702	23	725	93,112	725	93,112	
106	4. Salt ...	650	871	1,521	1,49,100	1,521	1,49,100	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
.....	6. Metal ...	.....	.....	.....	.....	.....	.....
462	7. Building materials ...	7,050	152	7,202	25,106	7,202	25,106	
773	8. Miscellaneous* ...	3,547	117	3,664	3,95,483	3,664	3,95,483	
153	9. Fuel ...	2,198	14	2,212	17,263	2,212	17,263	
rafts.	10. Timber ...	.....	3,344 c. ft.	3,344 c. ft.	8,360	3,344 c. ft.	8,360
„	11. Bamboos ...	389 c. ft.	.....	389 „	65	389 „	65
303 & rafts.	12. Total ...	{ 19,167 & 389 c. ft }	{ 1,191 & 3,344 c. ft. }	{ 20,358 & 3,733 c. ft. }	{ 11,61,862 }	{ 20,358 & 3,733 c. ft. }	{ 11,61,862 }	
888 & rafts.	13. Total of same month last year ...	{ 13,616 & 372 c. ft. }	{ 510 }	{ 14,126 & 372 c. ft. }	{ 10,47,557 }	{ 14,126 & 372 c. ft. }	{ 10,47,557 }	
		Up.	Down.	Total.			Rs. A. P.	
Total number of boats plying cargo ... No.		2,204	99	2,303	Total tollage of month— 24+25+26 ...		8,631 13 9	
Empty „		510	123	633	Total tollage of same month last year ...		6,236 2 0	
Total number of boats plying passenger ... No.		342	24	366	Memorandum of Tollage.			
Total registered tonnage, cargo ... Tons		54,003	3,379	57,382				
Total registered tonnage, passenger ... Tons		786	75	861	Rs. A. P.			
Ton-mileage ...		4,24,191	54,064	4,78,255	1. Balance not recovered on the 1st of the month ...		353 1 9	
Estimated value of cargo Rs.		10,46,780	1,06,657	11,53,437	2. Tollage per month ...		8,631 13 9	
Number of passengers No.		2,620	345	2,965	3. Total ...		8,984 15 6	
Rafts, bamboos C. ft.		389	.....	389			
Do., bullahs „		.....	3,344	3,344			
Estimated value of rafts Rs.		65	8,360	8,425				
Tollage on boats „		7,770-1-9	846-8-0	8,616-9-9	4. Amount paid into treasury during the month ...		8,770 3 0	
Compounded tollage on boats ... Rs.		.....	.....	.....	
Tollage on rafts „		1-12-0	13-8-0	15-4-0	5. Balance due at the end of the month ...		214 12 6	
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-45			
Total tollage on rafts per 100 cubic feet ... Rs.		.....	.....	0-6-6			

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
6	(a) Jute ...	88	.....	88	11,025	88	11,025	
69	(b) Jaggery ...	463	16	479	60,457	479	60,457	
1	(c) Sugar ...	1	.....	1	225	1	225	
16	(d) Tobacco ...	105	45	150	29,400	150	29,400	
73	(e) Fish ...	14	.....	14	3,857	14	3,857	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
1	(g) Poultry ...	1	.....	1	112	1	112	
121	(h) Hay and straw...	349	.....	349	7,333	349	7,333	
35	(j) Oil ...	303	18	321	45,000	321	45,000	
96	(k) Earthenware ...	124	3	127	1,773	127	1,773	
355	(m) Other miscellane- ous.	2,099	35	2,134	2,36,301	2,134	2,36,301	
773	Total Miscellaneous...	3,547	117	3,664	3,95,483	3,664	3,95,483	

**ABSTRACT FOR THE MONTH OF MAY 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1890-91.				TRAFFIC, 1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	18,334	14 0	34,120	15 3	17,477	9 0	36,416	1 6
Tolly's Nullah ...	8,631	13 9	17,113	8 6	6,236	2 0	13,776	5 6
Total ...	26,966	11 9	51,234	7 9	26,713	11 0	50,192	7 0

Calcutta,
The 8th July 1890.

G. A. G. SHAW, *Under-Secretary to the Govt. of Bengal.*

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 5th July 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 5TH JULY 1890.			WEEK ENDING SATURDAY, THE 6TH JULY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	332	49,175	721	213	63,900	980
Jute ...	23	12,250	213	16	8,750	141
Firewood ...	87	1,27,800	733	72	38,250	629
Other articles ...	962	2,21,170	3,433	711	1,72,400	2,485
Total ...	1,404	4,10,395	5,100	1,013	2,83,300	4,235

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of April 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Coal	2,952	82	2,156	11	2,984	2,167	817	...
Cotton, raw ... ..	...	10	1	19	10	20	...	10
Cotton twist and yarn—								
1.—European ... ..	...	...	...	...	...	...	...	...
2.—Indian ... ..	...	...	...	...	...	...	...	...
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	885	...	388	5	385	393	...	8
b.—In boxes ... ..	...	...	...	...	...	...	...	...
2.—Indian—								
a.—In bales and bundles ... ..	...	...	...	...	...	...	...	...
b.—In boxes ... ..	...	...	...	...	...	...	...	...
Grains—								
2.—Rice	101	7	27	124	108	151	...	43
5.—Others	140	123	44	1,168	263	1,112	...	949
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed ... ..	...	...	...	...	...	...	...	...
b.—Undressed ... ..	...	...	...	...	...	...	...	...
2.—Skins of sheep, &c.—	...	15	...	26	15	26	...	11
a.—Dressed ... ..	...	...	...	...	...	...	...	...
b.—Undressed ... ..	...	...	...	...	...	...	...	...
Jute—								
1.—Raw—								
b.—Unscrowed ... ..	...	86	...	273	86	73	...	187
2.—Gunny-bags and cloth	16	...	21	24	16	45	...	29
Metals—								
1.—Copper, unwrought ... ..	...	...	...	...	...	...	...	...
2.—Brass, unwrought ... ..	...	...	...	...	...	...	...	...
3.—Brass and copper, wrought ... ..	...	...	...	...	...	...	...	...
4.—Iron	78	3	66	21	81	87	...	6
5.—Tin ... ..	...	...	...	...	...	...	...	...
6.—Others ... ..	...	...	...	...	...	...	...	...
Oils—								
2.—Kerosine	71	...	87	...	71	87	...	16
3.—Others	232	...	158	...	232	158	74	...
Oilseeds—								
1.—Linseed ... ..	...	...	...	...	...	...	...	...
2.—Rape and mustard ... ..	...	...	...	...	...	...	...	...
3.—Til or gingelly ... ..	...	...	...	...	...	...	...	...
4.—Niger ... ..	...	...	...	...	...	...	...	...
5.—Castor ... ..	...	...	...	...	...	...	...	...
6.—Poppy ... ..	...	...	...	...	...	...	...	...
7.—Others ... ..	...	...	...	...	...	...	...	...
Provisions—								
2.—Betel-nuts ... ..	...	959	3	57	959	60	899	...
3.—Others	79	240	81	196	319	277	42	...
Railway plant and rolling-stock ... ..	...	...	147	18	118	165	...	47
Salt	418	...	499	9	418	508	...	90
Sugar—								
1.—Drained ... ..	...	...	...	...	...	...	...	...
2.—Undrained	232	612	17	2,362	834	2,379	...	1,545
Tobacco	28	82	58	65	110	123	...	13
All other articles of merchandise—								
1.—Unmanufactured ... ..	...	...	...	...	...	...	...	...
2.—Manufactured	624	596	365	320	1,220	685	535	...
Total	5,465	3,483	4,244	6,287	9,666	10,531	2,367	3,832

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of April 1890.

	INCREASES.	Tons.
Coal	817
For railway and flotilla consumption.
Betel-nuts	899
Principally from the B. C. F. Company.

	DECREASES.	Tons.
Oilseeds	878
A general decrease in despatches from principal stations said to be due to late crop and dull market.		
Sugar	1,545
The decrease in despatches from Jhikargachi during the month was 34,564 maunds, but Maslandpur, Gobardanga, Jadabpur, Nabharan and Jessore also show a falling off. The demand in Calcutta for date sugar appears to have absolutely ceased.		

CALCUTTA, the 2nd July 1890.

F. P. QUINLAN,
Examiner of Accounts.

Tirhoot State Railway.

Statement shewing the increase and decrease of principal staples carried over the line during the month of May 1890, as compared with the corresponding period of 1889.

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Ramboo and bricks	590	280	575	2,053	870	2,628	.....	1,758
Coal and coke	91,973	731	75,535	250	92,704	75,785	16,919	.....
Cotton	1,724	6	714	16	1,730	730	1,000	.....
Piece-goods	29,713	288	21,508	153	27,001	21,661	5,340	.....
Indigo	.....	.....	.....	6	.....	6	.....	6
Gunny bags	9,057	865	4,060	2,382	9,922	6,451	3,471	.....
Fruits	.....	.....	.....	55	.....	55	.....	55
Food-grains	.....	.....	296,011	58,138	285,441	354,149	.....	68,708
I.—Rice	5,602	212,681	.....	.....	.....	.....	.....	.....
II.—Others	36,636	30,432	46	5,209	6,350	5,255	1,095	.....
Hides and horns	70	6,280	.....	.....	.....	.....	.....	.....
Lac	1,387	128	640	9	1,615	658	857	.....
Lime and kunker	16,136	544	15,765	120	16,690	15,885	795	.....
Liquors	382	14	356	11	376	367	9	.....
Metal—	.....	.....	.....	.....	.....	.....	.....	.....
I.—Iron	22,465	256	3,701	132	22,021	3,833	18,888	.....
II.—Brass-bell, metal and copper	1,234	374	567	430	1,008	997	611	.....
Mowah	4,313	65	4,675	87	4,378	4,762	.....	384
Oil	.....	.....	2,404	150	5,464	2,554	2,910	.....
I.—Kerosine	5,012	403	.....	.....	.....	.....	.....	.....
II.—Others	43	6	.....	.....	.....	.....	.....	.....
Oil-cake	140	11,346	565	9,711	11,486	10,276	1,210	.....
Paints and colours	41	50	8	.....	91	8	83	.....
Ghee	.....	3,019	82	3,326	3,019	3,608	.....	589
Railway materials	53,989	14,063	5,330	3,570	68,052	8,909	59,143	.....
Salt	1,11,387	2,611	80,447	654	113,999	81,101	32,897	.....
Saltpetre	2,241	16,830	1,896	14,692	19,971	10,588	2,483	.....
Seeds	4,296	226,117	12,865	161,565	230,413	174,430	55,983	.....
Spices	4,981	3,032	3,048	925	8,613	3,973	4,640	.....
Sugar and jaggree	4,221	7,040	3,756	3,289	11,261	7,045	4,216	.....
Tobacco	25,981	79,413	25,336	69,579	103,304	94,015	8,479	.....
Wood—	.....	.....	.....	.....	.....	.....	.....	.....
I.—Timber	1,129	9,826	712	6,553	11,025	7,265	3,760	.....
II.—Firewood	9	.....	2,029	300	9	2,329	.....	2,320
Jobs, screwed	.....	.....	.....	.....	.....	.....	.....	.....
Do., unscrewed	.....	.....	.....	.....	.....	.....	.....	.....
All other goods	24,338	21,918	16,706	23,446	47,256	39,242	8,041	.....
Total	4,54,230	6,50,218	5,78,454	3,67,011	11,04,448	9,45,465	2,32,803	73,820
					1,58,983		1,58,983	

Total quantity of goods carried during the month of May 1890 aggregated maunds 11,04,448 as compared with the maunds 9,45,465 carried during the corresponding period of 1889, and maunds 9,64,740 carried during the previous month, shewing increase of maunds 1,58,983 in one case and maunds 1,39,708 in the other.

Explanation of increases and decreases in the principal commodities carried during May 1890.

INCREASES.		Mds.
Coal and coke	.....	16,919
Due to construction of Sitamarhi extension.	.....	.....
Piece-goods	.....	5,340
Due to greater requirements of Nepal and to prosperous season.	.....	.....
Gunny bags	.....	3,471
Due to increase in bagged goods.	.....	.....
Iron	.....	18,888
Due to importation of drainage pipes for water-works at Khatmudu.	.....	.....
Oil	.....	2,910
Due to old stock having been exhausted.	.....	.....
Railway materials	.....	59,143
Due to construction of Sitamarhi and Kanwa Ghât extension.	.....	.....
Salt	.....	32,897
Due to old stock having been exhausted and to the merchants laying in a fresh stock before the rains.	.....	.....
Saltpetre	.....	2,483
Due to greater demand and favourable rates at Calcutta.	.....	.....
Seeds	.....	55,983
Due to good crop and favourable market.	.....	.....
Spices	.....	4,640
Due to greater requirements at Nepal and to old stock having been exhausted.	.....	.....
Sugar and jaggree	.....	4,216
Due to good production and favourable rates.	.....	.....
Tobacco	.....	8,479
Due to good production and favourable rates.	.....	.....
Timber	.....	3,760
Due to greater despatch by Messrs. Dear and Co. from Segowlie.	.....	.....

DECREASES.

Food-grains 68,708
 Last year, owing to the scarcity in Tirhoot, a good quantity of food-grains was imported in the district, which has not been done this year as the crop is abundant; hence the decrease.

G. C. WOLFE, Offg. Examiner.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the period ...	354,418	3,28,479 11 0	24,20,306 0	5,48,029 12 0	28,009 13 0	9,04,519 4 0	80,000	107,063½	193,970½
Or per mile of railway ...	.....	215 5 3	.....	359 3 11	18 5 9	592 14 11	.....	.....	.....
For previous 25 weeks of half-year ...	6,621,125*	71,11,729 6 0*	6,33,63,232 0*	1,40,47,820 5 3†	3,43,569 9 9†	2,24,03,119 5 0	1,637,995½	2,399,595½	4,037,590½
Total for 26 weeks ...	6,975,543	74,40,209 1 0	6,07,83,598 0	1,64,95,850 1 3	3,71,579 6 9	2,33,07,638 9 0	1,724,002	2,507,550½	4,231,551½
COMPARISON.									
Total for corresponding period of previous year ...	312,710	3,17,944 15 10	27,94,112 10	5,55,744 12 2	—83,244 4 11	7,90,443 7 1	75,508	105,133½	180,641½
Or per mile of railway corresponding period of previous year ...	.....	208 6 9	.....	364 4 10	—54 9 1	518 2 6	.....	.....	.....
Total to corresponding date of previous year ...	7,079,954½	75,82,695 1 4	7,43,42,378 20	1,62,12,447 15 4	3,57,490 13 1	2,41,52,633 13 9	1,708,220	2,619,437½	4,325,657½

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR THE LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR THE LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
1,525½	Rs. 7,90,445	Rs. 519	1,525½	Rs. 9,04,519	Rs. 593	1,525½	Rs. 1,20,26,750	Rs. 606	1,525½	Rs. *1,11,39,051	Rs. 562	Rs.	Rs. 8,87,699

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,205	6,883 2 0	45,332 30	2,619 9 0	64 6 0	9,566 8 0	1,191	1,832	3,023
Or per mile of railway ...	248½	120 5 4	792 30	45 12 7	1 2 0	167 3 11	.....	.....	.....
For previous 25 weeks of half-year ...	*342,150	*1,68,043 2 0	*12,09,415 20	*77,480 15 0	1,152 6 0	2,40,678 7 0	38,774½	18,694	57,468½
Total for 26 weeks ...	356,355	1,74,926 4 0	12,54,748 10	80,099 15 0	1,216 12 0	2,56,242 15 0	39,965½	20,526	60,491½
COMPARISON.									
Total for corresponding week of previous year ...	11,045	5,269 10 6	45,077 30	2,952 9 0	586 3 6	8,808 7 0	1,205½	620	1,825½
Or per mile of railway corresponding week of previous year ...	193	92 2 0	788 10	51 9 11	10 4 0	153 15 11	.....	.....	.....
Total to corresponding date of previous year ...	348,985½	1,80,657 13 3	12,11,434 30	68,680 2 0	2,253 1 6	2,51,591 0 9	42,987½	19,816	62,803½

Deducted number of passengers 3,258 and Rs. 3,464½ on account of differences between the approximate and audited returns to week ended 24th May 1890.
Added maunds 212 " 43½

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR THE LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR THE LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 8,893	Rs. 154	57½	Rs. 9,567	Rs. 167	57½	Rs. 1,13,996	Rs. 153	57½	Rs. *1,27,613	Rs. 172	Rs. 13,617	Rs.

* Deducted Rs. 3,421 on account of difference between the approximate and audited figures to week ended 24th May 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,439	6,806 0 0	3,885 20	147 5 0	11 10 0	6,965 8 0	1,262	80	1,342
Or per mile of railway ...	.....	305 19 7	.....	6 9 11	0 8 5	313 0 11	.....	.....	.....
For previous 25 weeks of half-year ...	*561,516	*1,47,786 5 0	†3,72,142 30	†11,613 11 0	227 0 0	1,59,627 0 0	22,266	2,477	24,743
Total for 25 weeks ...	588,955	1,54,592 14 0	3,76,028 10	11,761 0 0	238 10 0	1,63,592 8 0	23,528	2,557	26,085
COMPARISON.									
Total for corresponding week of previous year ...	21,797	5,493 6 3	5,065 20	—455 15 0	12 3 0	5,049 10 6	1,060	40	1,100
Per mile of railway corresponding week of previous year ...	.....	246 14 0	.....	—20 7 10	0 8 9	236 15 3	.....	.....	.....
Total to corresponding date of previous year ...	592,725	1,55,190 6 1	2,32,126 20	8,404 8 0	267 4 0	1,63,802 2 1	24,054	1,538	25,592

* Added No. of passengers 3,359 and Rs. 757 } on account of differences between the approximate and audited returns to week ended 24th May 1890.
 † Ditto Mds. 9,391 and deducted " 20 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works* Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR THE LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR THE LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	5,050	227	22½	6,966	313	22½	82,637	286	22½	*85,329	295	2,692	.....

* Added Rs. 737 on account of difference between the approximate and audited figures to week ended 24th May 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B. DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 21st June 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	172,620	75,780 0 0	4,52,550 0	81,680 0 0	15,570 0 0	1,73,610 0 0	23,542	31,537	55,079
Or per mile of railway ...	225	99 0 0	590 0	106 0 0	†2 0 0	297 0 0	.....	.....	.....
For previous 24 weeks of half-year ...	3,902,631	17,95,949 0 0	1,33,41,658 0*	23,79,006 0 0	4,56,697 0 0	*46,25,553 0 0	539,365	735,796	1,275,164
Total for 25 weeks ...	4,075,251	18,71,629 0 0	1,37,94,208 0	24,00,666 0 0	4,66,267 0 0	47,98,562 0 0	562,907	767,336	1,330,243
COMPARISON.									
Total for corresponding week of previous year ...	160,353	68,647 0 0	4,62,898 0	77,406 0 0	18,207 0 0	1,64,260 0 0	22,140	23,800	45,940
Per mile of railway corresponding period of previous year ...	238	102 0 0	688 0	115 0 0	†5 0 0	222 0 0	.....	.....	.....
Total to corresponding date of previous year ...	3,716,704	18,21,397 0 0	1,26,57,964 0	20,69,348 0 0	4,63,886 0 0	43,54,541 0 0	538,351	600,946	1,139,297

* Audited up to week ending 3rd May 1890.

† Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	1,04,290	244	767	1,73,610	226	673	19,49,633	241	767	*20,53,555	226	1,04,522	.....

* Audited up to week ending 3rd May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	27,860	10,610 0 0	32,970 0	2,450 0 0	30 0 0	13,090 0 0	3,662	2,040	5,702
Or per mile of railway ...	223	85 0 0	320 0	20 0 0	.....	105 0 0	.....	.....	.....
For previous 24 weeks of half-year ...	*681,630	2,33,584 0 0	*12,07,237 0	71,153 0 0	1,649 0 0	*3,06,386 0 0	85,193	48,711	133,904
Total for 25 weeks ...	712,490	2,44,194 0 0	12,47,207 0	73,603 0 0	1,679 0 0	3,10,476 0 0	88,885	50,761	139,646
COMPARISON.									
Total for corresponding week of previous year ...	29,174	11,408 0 0	48,189 0	2,092 0 0	47 0 0	13,547 0 0	3,735	1,959	5,694
Per mile of railway corresponding period of previous year ...	233	91 0 0	386 0	17 0 0	.....	108 0 0	.....	.....	.....
Total to corresponding date of previous year ...	737,774	2,63,289 0 0	13,87,246 0	70,803 0 0	5,049 0 0	3,48,143 0 0	92,063	48,688	140,751

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	13,547	108	125	13,090	105	125	1,70,402	114	125	*1,40,017	99	.....	21,385

* Audited up to week ending 3rd May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 21st June 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	19,690	5,350 0 0	14,810 0	1,230 0 0	230 0 0	6,790 0 0	2,460	690	3,150
Or per mile of railway ...	229	62 0 0	172 0	14 0 0	3 0 0	79 0 0	.....	.....	.....
For previous 24 weeks of half-year ...	408,153	1,25,244 0 0	5,41,893 0	51,218 0 0	3,831 0 0	*1,80,293 0 0	57,200	13,688	70,887
Total for 25 weeks ...	427,843	1,30,594 0 0	5,56,703 0	52,448 0 0	4,061 0 0	1,87,083 0 0	59,669	19,378	79,047
COMPARISON.									
Total for corresponding period of previous year ...	16,174	4,820 0 0	17,875 0	879 0 0	261 0 0	5,960 0 0	2,414	690	3,104
Per mile of railway corresponding period of previous year ...	188	56 0 0	208 0	10 0 0	3 0 0	69 0 0	.....	.....	.....
Total to corresponding date of previous year ...	383,494	1,16,220 0 0	3,91,592 0	26,913 0 0	4,810 0 0	1,47,943 0 0	61,425	19,622	81,047

* Audited up to week ending 3rd May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,960	69	86	6,790	79	86	65,286	63	86	*73,798	72	8,512	.....

* Audited up to week ending 3rd May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st June 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	5,324	21,938 0 0	12,165 0	771 0 0	13 0 0	2,742 0 0	569	254	763
Or per mile of railway ...	195	72 0 0	446 0	28 0 0	1 0 0	101 0 0	.....	.....	.....
For previous 23 weeks of half-year ...	78,598	28,798 0 0	2,82,001 0	17,098 0 0	2,212 0 0	48,108 0 0	12,189	11,880	23,569
Total for 24 weeks ...	83,922	30,796 0 0	2,94,766 0	17,869 0 0	2,225 0 0	50,890 0 0	12,698	11,634	24,332
COMPARISON.									
Total for corresponding week of previous year ...	3,499	1,295 0 0	8,106 0	499 0 0	146 0 0	1,940 0 0	569	418	927
Per mile of railway corresponding week of previous year ...	128	48 0 0	297 0	18 0 0	5 0 0	71 0 0	.....	.....	.....
Total to corresponding date of previous year ...	85,743	32,580 0 0	2,70,443 0	16,808 0 0	2,220 0 0	51,608 0 0	12,961	10,607	23,568

a Increase is due to "Bathing Mela" on account of Solar Eclipse.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,940	71	27½	2,742	101	27½	23,368	71	27½	22,137	68	.....	1,231

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 21st June 1890, on 273 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	79,790	235,147 0 0	1,81,964 0	18,951 0 0	2,394 0 0	56,392 0 0	6,793	7,002	13,795
Or per mile of railway ...	292	129 0 0	667 0	69 0 0	3 0 0	201 0 0*	.....	.....	.....
For previous 23 weeks of half-year ...	1,101,030	4,40,621 0 0	59,14,221 0	6,74,836 0 0	77,308 0 0	11,92,765 0 0	121,730	223,214	344,943
Total for 24 weeks ...	1,180,820	4,75,768 0 0	60,96,185 0	6,93,787 0 0	79,602 0 0	12,49,167 0 0	128,522	230,216	358,738
COMPARISON.									
Total for corresponding week of previous year ...	40,701	14,338 0 0	2,21,170 0	18,562 0 0	4,360 0 0	37,260 0 0	4,748	5,002	10,440
Per mile of railway corresponding week of previous year ...	149	52 0 0	810 0	68 0 0	1 0 0	121 0 0*	.....	.....	.....
Total to corresponding date of previous year ...	1,079,249	4,68,526 0 0	40,39,167 0	3,82,499 0 0	99,240 0 0	8,85,265 0 0	129,718	140,834	270,552

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

a Increase is due to "Bathing Mela" on account of Solar Eclipse.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

RECEIPTS FOR WEEK ENDING 22ND JUNE 1889.			RECEIPTS FOR WEEK ENDING 21ST JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 22ND JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 21ST JUNE 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	37,260	136	273	56,392	206	273	4,72,836	144	273	5,40,933	168	77,052	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

							Rs.
Approximate earnings for week ending 7th June 1890 ...	...	...	...	...	...	...	12,595
Corresponding period of 1889 ...	...	...	...	...	...	...	9,593
Increase ...	...	...	...	...	...	...	3,002
Receipts per mile open, week ending 7th June 1890 ...	...	...	...	...	...	...	Rs. A. P. 246 15 4
Corresponding period of 1889 ...	...	...	...	...	...	...	188 1 9
Increase ...	...	...	...	...	...	...	58 13 7
Receipts from 1st January to 7th June 1890 ...	...	...	...	...	...	...	2,29,429
Corresponding period of 1889 ...	...	...	...	...	...	...	2,32,576
Decrease ...	...	...	...	...	...	...	3,147

[REGISTERED No. 29.]

No. 29 of 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JULY 16, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
PUBLIC holidays in Bengal	1475	QUARTERLY review of births and deaths registered in twenty-seven of the principal towns of Bengal for the quarter ending 31st March 1890	1537
Agricultural Congress to be held at Vienna in October next	1510	Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 28th June 1890	1545
District Road Fund	1511	Areas leased for Irrigation up to the end of May 1890	1546
Rainfall, Weather, and State and Prospects of the Crops	1514	Statement showing heights over mean sea-level and low water in the Rivers Ganges, Bhagirathce, Jellinghee and Brahmapootra for the month of May 1890	1547
Results of the Meteorological Observations taken at the Allpore Observatory from 6th to 12th July 1890	1517	Circular and Eastern Canals for the week ending 12th July 1890	1548
Meteorological Report of the Province of Bengal for the month of June 1890	1518	Eastern Bengal State Railway for the month of April 1890	1548
Table of Rainfall recorded at Stations in Bengal in June 1890	1520	Weekly Return of Traffic Receipts on Indian Railways	1549
Meteorological Report of the Province of Bengal for the week ending Friday the 11th of July 1890	1530		
Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890	1532		
Result of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 6th to 12th July 1890	1536		

PUBLIC HOLIDAYS IN BENGAL.

No. 1289, dated Simla, the 3rd July 1890.

From—C. J. LYALL, Esq., C.I.E., Offg. Secy. to the Govt. of India, Home Dept.,
To—The Secretary to the Government of Bengal, Financial Department

I AM directed to acknowledge receipt of your letters No. M^{1-H}28, dated 19th April, and No. M^{1-H}16, dated the 21st April last, to the address of the Department of Finance and Commerce, with which His Honour the Lieutenant-Governor submits a correspondence which has passed between the Government of Bengal and various Public Bodies and Associations, and makes proposals for the notification of certain days as public holidays in the Lower Provinces of Bengal under section 25 of the Negotiable Instruments Act.

The Lieutenant-Governor recommends that the holidays which have hitherto been gazetted as public holidays under section 25 of the Act should in future be distributed between two notifications, the first, issued under the Act, dealing with those Hindu holidays only the observance of which is absolutely required in order to enable Hindu employes, whether in the service of Government or of

private persons, to fulfil their religious duties, and the second, issued as an executive order, including the remaining days hitherto observed as public holidays and applicable to all public offices and Magisterial and Revenue Courts under the Government of Bengal. It is explained that the ground of the distinction made is that the former class, which are days of religious obligation, are distinct from the latter, which are days of social observance only; that the effect of notifying all holidays without distinction under the Negotiable Instruments Act is to interfere most seriously with trade, shipping, and monetary business; and that the course which is recommended in regard to the Hindu holidays included in the second notification is that which has always been pursued in regard to all Muhammadan holidays, and has not been found to cause inconvenience. His Honour has no intention of in any way curtailing the holidays at present allowed to public servants in Bengal, but merely wishes to remove what he regards as a reasonable source of complaint to the mercantile community, who are unable to transact business on days notified under the Act, although large numbers of vessels arrive by sea and leave the port of Calcutta, large quantities of goods are received by rail, and bills mature and ought to be paid.

2. In reply, I am to say that the Governor-General in Council has carefully considered the proposals made in your letter and the correspondence forwarded with it, and desires me to convey his acknowledgments of the thoroughness with which the matter has been investigated and the thoughtful and considerate spirit in which His Honour the Lieutenant-Governor has dealt with this difficult subject. The main principle of the proposals, to make a distinction between those holidays which require to be notified under the Negotiable Instruments Act and those which do not require to be so notified but may be allowed as a matter of executive arrangement, is one which has long been recognized in other Presidencies, and has in fact been always in force in Bengal in regard to the Muhammadan holidays, which are observed by one-third of the population of the province. It appears to the Government of India that, in view of the consequences which ensue from the notification of holidays under the Act, such notification should clearly be restricted to those days when a cessation of business is absolutely necessary, and that there is no need to apply the same process to days which are only occasions for festive and social gatherings. The proposals made by the Lieutenant-Governor have reference only to the Durga Puja holidays, and in regard to these it is shown, in paragraph 10 of your letter, that the restrictions upon business which the system hitherto followed imposes are not observed by the native community themselves. His Honour writes:—

It is not to be forgotten that in all places in Bengal, and especially in Calcutta, the Durga Puja holidays are the season of the busiest life in all the year. The shop-keepers have no holiday, the cloth-sellers, the money-changers, the confectioners, the grocers and the general dealers are busy all day long; in the bazar there is no holiday, but business is as brisk as it can be. The clerks and sircars in the bazar are not idle men. It is only in the public offices that stagnation reigns. It is not therefore a real or just ground for complaint if in a few public offices for public reasons a few clerks are required to attend office on certain days which are allowed to remain holidays to the great majority of clerks employed in the public service.

What is here stated regarding the activity of trade during the Durga Puja holidays is confirmed by the following passage in the letter from the Secretary to the Bengal National Chamber of Commerce, dated the 27th March 1890:—

The Committee beg further to observe they take particular note of the fact that trade is very brisk during the Puja holidays, the demand for a number of articles being larger during the twelve days than throughout the rest of the year. This may be explained by reason of the large influx of people from all parts of the country bent upon making the most of the holidays. The curtailment of the holidays must necessarily involve a serious pecuniary loss to the trade.

For these reasons, while regretting that the arrangement proposed by His Honour the Lieutenant-Governor should not commend itself to those representatives of the Hindu community whose replies are enclosed in your letter, the Government of India sanctions the proposals made, and authorizes the issue of the notifications forwarded by you.

I am, however, to observe that if the Governor-General in Council rightly understands the letters from Mahamahopādhyāya Mahesh Chandra Nyāyaratna, dated the 4th and 14th November 1889, it would seem that the 23rd October

is one of those days which should be set apart as required for religious observance, and His Excellency in Council would suggest, for the consideration of His Honour the Lieutenant-Governor, that it might be added to the 20th, 21st, and 22nd October in the list of holidays to be notified under the Act. If this is done the balance might be redressed by removing the 24th December from the holidays to be gazetted under the Act, and entering it as an office holiday in the other notification.

3. The Governor-General in Council accepts the proposals of His Honour the Lieutenant-Governor as regards the offices under the Government of Bengal to be kept open during the holidays which will henceforth not be notified under the Act. In all these offices special arrangements should be made, by contracting the hours of business, by limiting the work undertaken to what is really urgent, by granting leave to Hindu employes wherever practicable, and by utilizing as much as possible the services of their non-Hindu fellow-clerks to minimise the inconvenience which may be felt by those who have hitherto enjoyed close holidays on the days which will in future be open. Under proper arrangements, so far from hardship being entailed on any considerable section of the community, not more than three or four Hindu clerks under the Government of Bengal are likely to be affected by the change. Separate orders to the same effect will be given by the Government of India in regard to the offices directly subordinate to it which are situated in Calcutta.

4. I am to request that, with the Lieutenant-Governor's permission, this letter and yours to which it is a reply, with the enclosures of the latter commencing with your letter Nos. M^{1-H}₁ 18-22, dated the 19th January last, and the two letters from Pandit Mahesh Chundra Nyáyaratna, may be published for general information in the *Calcutta Gazette*.

No. M^{1-H}₂ 16, dated Calcutta, the 21st April 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary to the Government of India, Dept. of Finance and Commerce.

I AM directed to submit, for the consideration and orders of the Government of India, a copy of

Letter from the Bengal Chamber of Commerce, No. 944—89, dated 22nd November 1889, and enclosures.

Government letter No. Mis. $\frac{1-H}{1}$ 16, dated 11th December 1889, with enclosure.

Government letters Nos. Mis. $\frac{1-H}{1}$ 18-33, dated 19th January 1890, and annexure.

Government letters Nos. Mis. $\frac{1-H}{1}$ 34-35, dated 20th January 1890.

Letter from the Port Officer and Shipping Master, Calcutta, No. $\frac{S}{107}$, dated 30th January 1890.

Letter from the Registrar of Calcutta, No. 75, dated 3rd February 1890.

Letter from the Superintendent and Remembrancer of Legal Affairs, No. 1328, dated 4th February 1890.

Letter from the Bengal Chamber of Commerce, No. 73, dated 7th February 1890.

Letter from the Bank of Bengal, dated 10th February 1890.

Letter from the Exchange Banks, dated 11th February 1890.

Government letter No. 985, dated 17th February 1890.

Letter from the Calcutta Trades' Association, dated the 24th February 1890.

Letter from the Bengal Chamber of Commerce, No. 131—90, dated the 26th February 1890.

Demi-official from the Bengal Chamber of Commerce, No. 173, dated the 7th March 1890.

Letter from the Board of Revenue, No. 206B., dated the 20th March 1890.

Letter from the Indian Association, No. 60, dated the 15th March 1890.

Letter from the Bengal National Chamber of Commerce, dated the 27th March 1890.

Letter from the British Indian Association, dated the 7th April 1890.

the marginally noted correspondence which has passed between this Government and various local Associations and Offices regarding the notification of public holidays in the Bengal Province.

2. The history of the question is given in my circular letter of the 19th January to the Bengal Chamber of Commerce and other Associations. The holidays notified under the Negotiable Instruments Act in Bengal are now exactly the same as those which were sanctioned by the Government of India on the 29th October 1867. Although the Chamber of Commerce have not ceased to press

for their reduction, their representations have, with reference to the orders passed by the Government of India on the 28th January 1880, and reiterated in 1882, been invariably rejected by this Government. A copy of the reply sent by the Lieutenant-Governor to the Chamber of Commerce in 1888 was transmitted to the Government of India with my letter No. M^{1-H}₁ 7, dated 17th September 1889. A copy of a correspondence with the Chamber in 1889 is

among the enclosures now submitted. In the orders issued by Government on that occasion it was pointed out that the reasons adduced by the Government of India in 1882 against any reduction in the number of holidays were in full force, and the following extract from your letter No. 3712, dated 12th September 1882 was quoted:—

“The Governor-General in Council is aware that the closing of the Government offices in Calcutta for a period of 12 days is productive of some inconvenience to the mercantile community, but on the other hand it cannot be overlooked that, in the words of the Lieutenant-Governor of Bengal, the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community.”

3. A new suggestion has, however, now been made, which it is believed will be able to satisfy the reasonable requirements both of the European commercial body and of the Hindu community. When the holidays for the current year were notified under the Negotiable Instruments Act by Government, a deputation from the Chamber of Commerce waited on the Lieutenant-Governor at Belvedere in December last, and strongly pressed upon His Honour the necessity of modifying the form of notification by which public holidays were gazetted. The deputation laid stress on the alteration which the passing of the Negotiable Instruments Act had introduced into the conditions of the problem since the decision of Government was arrived at ten years ago, and indicated that it might be found possible to find a solution of an admitted difficulty by restricting the number of holidays gazetted under the Act, but at the same time retaining by executive authority the existing number of holidays for all public offices save the few which are indispensable to the foreign commerce of the port. The question thus stated was then very carefully considered by the Lieutenant-Governor, and the result was the issue of the circular letter of the 19th January, to which I am to request that a reference may be made by the Government of India for a *resumé* of the discussion as well as of the arrangements it is proposed to adopt. His Honour's views are so fully expressed in that letter that it is not necessary to enter again upon the subject at any length.

4. Briefly speaking, it is now proposed to notify holidays in Bengal under two separate notifications: first, in regard to public holidays notified as such under the Negotiable Instruments Act; and, secondly, in regard to holidays which are notified as such by the closure of public offices. These two separate notifications would be in the form given and apply to the days specified in the draft notifications annexed to this Government letter of the 19th January.

5. Before publishing these notifications or applying to the Government of India for permission to modify the form in which public holidays are notified in Bengal, the Lieutenant-Governor desired that the Bengal Chamber of Commerce, the Bengal National Chamber of Commerce, the Calcutta Trades' Association, the British Indian Association, the Indian Association, the Bank of Bengal, the Exchange Banks, and the Heads of the Offices immediately concerned, should be consulted; and it will be seen from the replies which form an enclosure to this letter that the proposal has elicited considerable difference of opinion. The Bengal Chamber of Commerce, the Bank of Bengal, the Trades' Association, and the Board of Revenue give it their concurrence. But the letter from the Exchange Banks accords only a hesitating and incomplete support. The managers of these banks would evidently prefer to retain intact the holidays notified under the Act. They express themselves as perfectly willing to accept the proposals put forward by Government, if only the majority of the mercantile community is in favour of them. But they observe that “it has not been effectively demonstrated, by general vote or otherwise, whether reduction of holidays finds favour or disfavour among the majority at the present time.” Looking to the importance of this question, the Lieutenant-Governor deemed it right to transmit the letter of the Exchange Banks to the Chamber and to consult the Committee again on the subject. Accordingly, upon the 17th February, I was directed to inform the Chamber that although the Lieutenant-Governor had no doubt that the opinion of the Chamber as a body had been expressed in the letter already received from their Secretary, yet, with reference to the observation made by the Exchange Banks, it would be more satisfactory to Government if, with the permission of the President

and Committee, it could be stated approximately how far the doubt expressed by the Banks, "whether a majority of the (mercantile) community is in favour of fewer holidays," can be set at rest by reference to the relative number of supporters of either view among the members of the Chamber. In reply to this letter the Committee intimated that they were unable to comply with the suggestion of Government that a formal vote of the Chamber should be taken on the question; but on occasion of the Annual Ordinary Meeting of the Chamber, the President, Sir Alexander Wilson, referred to the subject in his address, and in the course of the proceedings called for an informal vote as an expression of the Chamber's opinion. The result is reported to have been the unanimous confirmation of the views expressed by the Committee. The list of gentlemen present at this meeting is given in Mr. Clarke's demi-official letter of the 7th March, and it appears to the Lieutenant-Governor to contain as complete a representation of the mercantile interests of the port as it could be possible to assemble together for such a purpose. Although, as stated in my letter to the Chamber, it would have been more satisfactory to Government to have received an official reply as to whether any considerable minority of their members was opposed to any change, the Lieutenant-Governor has no doubt that the expression of opinion of the members of the Chamber on the occasion of their Annual General Meeting may be accepted as conclusive proof of the views of the overwhelming majority of the mercantile community of Calcutta. This opinion is in accordance with the views expressed by the Bank of Bengal, the best judge of the requirements of the commercial public, by the Trades' Association, and by the Committee of the Chamber, during a period of agitation for thirty years.

6. On the other hand the Bengal National Chamber of Commerce, the Indian Association, and the British Indian Association are opposed to any change in the method of notifying the existing holidays. Their letters are enclosed, and are entitled to the consideration they deserve as undoubtedly representing the great mass of Hindu opinion on the subject. But the Lieutenant-Governor does not find that they bring forward any new arguments or raise any objections which have not already been met by anticipation and fully replied to in my letter of the 19th January. The British Indian Association are, indeed, prepared to admit that the Currency Office and Shipping Office should be kept open during some of the holidays along with the Custom House. The National Chamber of Commerce and the Indian Association are not willing to make any concession. Their apprehension is, as the National Chamber of Commerce puts it, that the Government proposals are "but the thin end of the wedge, which in time must bring about the total abolition of the Doorga Poojah holidays in all public offices."

7. With reference to this remark, I am to explain that the objection of the native associations appears to be based in a large measure on a misconception of the arrangements proposed by Government. The effect of a notification under the Negotiable Instruments Act is that Promissory Notes or bills of exchange do not mature on the holidays therein specified, but are deemed to be due on the next preceding business day, and it is complained by the mercantile community that business is to a large extent paralysed when there are twelve such holidays in succession. There can be no dispute of the justice of this complaint and of the great inconvenience which the present procedure affords to the commercial public. The great increase in the number of steamers visiting the port, and the consequent necessity of expedition in despatching them, has also largely augmented the inconvenience caused by a twelve days' continuous closure of the offices to the trade of the port. To remedy these grievances, it is proposed that the number of holidays under the Act should be reduced; but it is not proposed that the number of holidays in Government offices generally should be diminished, and the executive order which it is intended to issue sufficiently shows that they will continue to be closed for the same period as at present. Nor will the promulgation of these parallel orders produce any perceptible effect upon the general body of the Hindu community. Certain social festivals of the Hindus will be placed on the same footing as Mahomedan holidays. But in both cases reasonable facilities will be afforded by Government for carrying on business. This is now done in the case of Mahomedan holidays and ought to be done in the case of Hindu social festivals.

On the other hand, certain Mahomedan holidays are now granted by executive order, and are, as a matter of fact, universally enjoyed in all parts of Bengal except in certain specified offices at the Presidency. The opening of these particular offices does not in any way govern the practice elsewhere, and we may expect that certain Hindu holidays, if notified in the same way as Mahomedan holidays as days upon which certain offices in Calcutta will be open, will be accepted in exactly the same way as Mahomedan holidays are now accepted.

8. The view which the British Indian Association appear to hold that the holidays under the Act should not be altered, but that by executive order the holidays in certain offices should be reduced, does not in any way meet the difficulty of which the commercial community complain. The opening or closing of a particular public office (important as it is that the offices should remain open) does not so much impede the transaction of public business as the declaration that for twelve days in succession exchange bills receivable cannot be legally collected, and Promissory Notes payable cannot be legally paid. The only manner in which this difficulty can be met is by reducing the number of holidays notified under the Act. And this is what it is now proposed to do without at all interfering with religious prejudice. The proposals now made declare that all days necessary for the performance of religious ceremonies shall be holidays under the Act. The remaining days of the Doorga Poojah, which are devoted to social festivities, are no longer included in the category of such holidays: but in order to allow every possible concession to the claims of Hindu clerks who are employed in public offices, it is proposed to declare by executive order that these offices, with a few specified exceptions, shall remain closed as they are at present. A distinction is drawn between holidays notified under the Act and those declared in public offices by executive order, and it seems to the Lieutenant-Governor that, by the recognition of this clear distinction, a compromise has at last been found, in the only way in which it was possible to find it, which satisfactorily meets the reasonable claims of the Hindu community as well as the interests of trade and commerce.

9. The Registrar of Calcutta and Shipping Master are opposed to the exclusion of their offices from the holidays notified by executive order, but in the opinion of the Lieutenant-Governor the arguments adduced by these officers are of no validity. The commercial community have always objected, and with reason, to the closing of the Registration Office for twelve consecutive days; and although, as represented by the Registrar, the number of documents presented for registration at this season is likely to be inconsiderable, it is apparent from this fact that a small establishment will be sufficient for carrying on the work, and that the hardship of attending office will therefore be felt by very few. The Shipping Office is one which, in the interests of the Port, it is absolutely necessary to keep open on every day on which it is possible to do so.

10. The Lieutenant-Governor has the strongest sympathy with the very general desire of the Hindu community that no obstacle should be placed by Government in the way of its Hindu employes meeting together at their homes, at the season of the Doorga Poojah holidays, for the celebration of religious, social, and domestic ceremonies. It is far from His Honour's desire to encourage any policy which would deprive Hindu employes as a body of the satisfaction of enjoying their great annual festival in the future as they have done in the past. There is nothing, however, in the proposals now made which, in the Lieutenant-Governor's opinion, is likely to lead to any such unfortunate result. It is true that a few clerks employed in a few offices may be subjected to some inconvenience by being required to attend office on days on which they now get a holiday. But the inconvenience is one which they must bear in the public interest. They will enjoy some compensating advantages. And it is not to be forgotten that in all places in Bengal, and especially in Calcutta, the Doorga Poojah holidays are the season of the busiest life in all the year. The shop-keepers have no holiday, the cloth-sellers, the money-changers, the confectioners, the grocers and the general dealers are busy all day long; in the bazar there is no holiday, but business is as brisk as it can be. The clerks and sircars in the bazar are not idle men. It is only in the public offices that stagnation reigns. It is not therefore a real or just ground for complaint if in a

few public offices for public reasons a few clerks are required to attend office on certain days which are allowed to remain holidays to the great majority of clerks employed in the public service.

11. Having regard to the correspondence with the Government of India on the subject of holidays in Bengal on previous occasions, the Lieutenant-Governor does not wish to take action in the direction now proposed without the previous sanction of His Excellency the Governor-General in Council. I am now to request that this sanction may be accorded and permission given to publish the draft notifications which are the annexure to my letter of the 19th January. It will be seen that the opinion of the law officers of Government has already been obtained that there appears to be no legal objection in the way to prevent the Government from cancelling the notification of public holidays already published at page 1010 of Part I of the *Calcutta Gazette* of 11th December 1889, and substituting in its place a new list.

12. I am to add that the executive order of the Government of Bengal, under which the public offices under this Government (excluding those specified in the notification) will be closed during certain days of the Doorga Poojah holidays in the same manner as these offices are now closed on the occasion of Mahomedan festivals, will obviously have no force in regard to offices under the Government of India, and the Lieutenant-Governor would therefore venture to recommend that the benefit of similar orders may be extended generally to the offices under the Supreme Government employed in the Lower Provinces. It will no doubt be necessary to exempt certain offices from the effect of such an order, as has been done in regard to offices under the Bengal Government; and in the opinion of the Lieutenant-Governor, as intimated in a separate letter of this day's date, the Currency Office should be so exempted; but it may easily be arranged that in these offices, as in the excepted offices under the Government of Bengal, if it be found impossible to grant the Hindu employes their holidays during the excluded days of the Doorga Poojah festival, they should not be required to attend in larger numbers than are actually necessary for the transaction of business, and that other concessions in the way of leave at other times should be given to them.

Nos. Mis. ¹⁻¹¹₁ 18-22, dated Calcutta, the 19th January 1890.

From—H. J. S. Corron, Esq., Officiating Secretary to the Govt. of Bengal, Financial Department,

To—The Secretary to the Bengal Chamber of Commerce; Secretary to the Bengal National Chamber of Commerce; Secretary to the Calcutta Trades' Association; Secretary to the British Indian Association; and Secretary to the Indian Association.

I AM directed to inform you that the Lieutenant-Governor has again had his attention drawn to the question of the number of public holidays in the Bengal Province, and to communicate to you the following observations on the subject, with a request that they may be laid before ^{the Bengal Chamber of Commerce,} ^{your Association,} ^{the Bengal National Chamber of Commerce,}

and that you will be so good as to furnish the Lieutenant-Governor with the opinion of the ^{Chamber} ^{Association} on the suggestions made, as well as with any further remarks on the subject which the ^{Chamber} ^{Association} may wish to offer.

2. It appears to the Lieutenant-Governor to be unnecessary to discuss the early history of the question, but in recent times it is material to note the following points:—

3. In 1860 the Bengal Chamber of Commerce suggested that holidays should be reduced to the days actually required for the ceremonial observances of the Hindu religion. A Committee, consisting of Messrs. J. J. Harvey, W. S. FitzWilliam, and Baboo Prosonno Kumar Tagore was appointed, and recommended, among other things, that the Doorga Poojah holidays should be 14 days for Hindus and 10 days for all other Government servants. These proposals were accepted by the Local Government, but on the 15th April 1862 they were set aside by the Government of India, and 27 days (including

12 days for the Doorga and Lakhi Poojahs) were declared public holidays. The

* Holidays fixed in 1867.	Number of days.
New Year's Day ...	1
Good Friday and follow- ing day ...	2
Queen's Birthday ...	1
Christmas ...	3
Sri Punchomi ...	2
Dole Jatra ...	1
Choit Sankranti ...	1
Dashera ...	1
Janmostomi ...	1
Mahaloya ...	1
Doorga and Lakhi Poojahs ...	12
Kali Poojah ...	2
Juggadhatri Poojah ...	2
	30

number of days was raised to 30 by the order of the Government of India dated 29th October 1867, and the general holidays * then sanctioned have remained unchanged up to the present time.

4. In 1874 the Chamber of Commerce recommended that the Doorga Poojah holidays should be reduced from 12 days to one week, and this proposal was supported by Sir George Campbell. Much opposition was, however, raised, and the proposal was rejected by the Government of India. Arrangements were, however, made for facilitating business in the Custom House, which it was ordered should remain closed for one week only.

5. In 1875 the Calcutta Trades' Association urged that the Doorga Poojah holidays should be reduced to the days of actual religious observance, and it was then directed that the Custom House should remain closed for five days only. The proposal that the Bank of Bengal should be closed for five days only was then rejected by the Government of India.

6. In 1878 the Chamber of Commerce again addressed Government, requesting "that the Doorga Poojah holidays be reduced and restricted to the four days which they understand are absolutely necessary for the observance of that annual festival, with the proviso that, should the festival terminate on a Friday, the holidays be extended so as to admit of business being resumed on the following Monday."

7. A representative Committee was appointed to consider and report on the question. The majority† reported as follows:—

† Mr. G. Yule. | Mr. S. Cochrane. "That only the four days required for strictly religious purposes be close holidays;

„ C. J. Brookes. | „ J. D. Maclean. "That if the fourth religious day fall on Friday, the offices shall not re-open till the following Monday;

"That the Public Debt Office, the Treasury, the Currency Office, the Money-order Office, the Stamp Office, and all Pay offices be closed on these four days only, but that in other Government offices the Heads of Departments shall have discretion to give leave to their subordinates for the whole or any part of the twelve days, provided the current work of their office is carried on."

‡ Baboo Kisto Das Pal.
„ Durga Churn Law.

8. The two Hindu Members‡ of the Committee recorded a dissent which concluded as follows:—

"Considering that the arrangements made by Government in 1874, by which the Custom House is kept open during the Doorga Poojah vacation, except for five days, and the jetties work without intermission, the inconvenience to the trade of the city is not serious; that the number of holidays in Bengal is less than that in the other provinces; that a general vacation of seven or eight days during Christmas does not in any way affect or inconvenience commerce in Madras and the North-Western Provinces; that the present Doorga Poojah vacation is necessary for the observance of the religious and social ceremonies of the Hindus; that it is a general holiday for all classes of public servants for rest, recreation and travelling; that it affords almost the only opportunity to the lower grades of officers to visit their mofussil homes once a year; that in a sanitary point of view a prolonged rest of 12 to 15 days in a year is of great importance, as it enables the officers of Government to discharge their duties much more satisfactorily than what they could do if no periodical rest was allowed; and that its curtailment would give rise to much hardship and dissatisfaction among the Hindu as well as other servants of Government, and also among the general public whose business engagements are regulated by the practice in the public offices, we are of opinion that no change in the present Doorga Poojah holidays is called for."

9. Mr. Dampier, the President of this Committee, recorded a separate memorandum, in which he stated that the recommendation of the majority of the Committee "amounted to a proposal that all public offices shall be kept open, and that all persons who are engaged in business must attend to business on all but the four close days." But he considered that the mercantile community had made out a case for some reduction in the length of the holidays, and suggested that the number of days should be summarily curtailed from 12 to 9 or 8.

10. The papers of the case were transmitted to the Government of India with a letter from this Government, No. 3809, dated 12th September 1879. In that letter the Lieutenant-Governor observed :—

“It may be conceded that the curtailment of the holidays proposed by the majority of the Committee will not interfere with any *bona fide* religious prejudices of the Hindu community. Any shortening of the vacation may prevent social ceremonies, visits home, and the enjoyment of the rest and recreation of a holiday; but when the question of opening the Custom House was discussed in 1874 to 1876, it was clearly decided that five days are all that are necessary for the purely religious observances of Hindus during the Doorga and Lakhi Poojahs, and this decision must be considered applicable to the Hindu clerks in all other offices. It must be accepted also as regards Bengal that on days when Hindu employés are authorised to be absent, offices cannot remain open, and that, whatever rule is laid down for the Bank of Bengal, the Currency and Pay offices at the Presidency must of necessity govern the holidays of all or almost all the other offices in Bengal. The partial opening of offices during the latter portion of the vacation, as suggested in the third proposal of the majority of the Committee, is not really practicable, and their recommendation amounts to this, that all public offices shall be kept open on all but the four days of religious observance.”

11. The question as a balance of convenience was then discussed by the Bengal Government, and it was recommended that there should be no alteration in the present holidays.

12. This recommendation was not accepted by the Government of India, and in orders dated 4th October 1879 it was directed that effect should be given to the proposals of the majority of the Committee.

13. On the return of the Government of India to Calcutta, the orders of the 4th October were cancelled. In a letter dated 28th January 1880 it is written :—

“Since his return to the Presidency, His Excellency the Governor-General in Council has found reason to doubt whether the Government of India allowed sufficient weight to the inconvenience which will be entailed by the enforcement of this decision upon the Hindu community of Calcutta and some other parts of Bengal, and to the strength of the popular attachment to these annual holidays.

“On the other hand, His Excellency is disposed to think that he may have underrated the extent to which the complaints of the mercantile community may be obviated, or at least mitigated, by careful arrangements in the several public offices to meet their requirements.”

14. It is then ordered that “the observance of the Doorga Poojah holidays in the public offices in Calcutta shall continue as heretofore,” and the Bengal Government are enjoined to take measures to meet, as far as possible, the convenience of the mercantile community.

15. In 1882 the Chamber of Commerce again urged that the Doorga Poojah holidays should be restricted to the four close days which are alone observed as religious holidays. But both the Government of Bengal and the Government of India refused to re-open the question.

16. During 1886 and 1887 the Chamber of Commerce made several representations on the subject of Custom House holidays and the general routine of Custom House business. Special objection was taken to the continuous

closing of the Custom House for periods varying from two to seven days. In 1888 a Committee* was appointed to enquire into the whole question, and submitted the following recommendation :—

“It has hitherto been the usage that the Custom House should not be opened on any gazetted holiday for any purpose free of charge, except on certain days in the long holidays of the Doorga Poojahs. This practice appears to us not to be suited to the requirements of the trade of Calcutta. We recommend that for the Custom House, as distinguished from the Preventive Department, Sundays, New Year’s Day, Good Friday, the Queen’s Birthday and Christmas Day should in future be held to be absolutely close holidays, but that on the week days for which the office is closed in the Doorga Poojahs, and on all ordinary gazetted holidays other than the days mentioned above, the Custom House should be opened free on charge for one hour, viz., from 11 A.M. to 12 noon, all work applied for up to 12 o’clock being carried through, provided that notice is given to the Assistant Collector before closing hours of the day previous, or if this be a holiday, 24 hours in advance, that it is required to have the office so opened. On such opening, vessels would be allowed to enter and clear on the import and export sides, and provisional bill-of-entry for free goods as well as shipping bills for free goods issued, but the treasury would, as in Bombay, remain closed. It is understood that arrangements can be made to carry out this in the Doorga Poojah holidays without obliging Hindu clerks to attend. The above change will further not affect the opening of the Custom House as heretofore on such advertised days as may be fixed on

* Mr. C. P. L. Macaulay.

„ R. Steel.

„ E. D. Wylie.

„ J. Scobell Armstrong.

in the Doorga Poojah holidays for the receipt of duty and complete transaction of Custom House business."

17. These proposals were sanctioned by the Local Government.

18. In 1888 and in 1889 the Chamber of Commerce have made further representations to Government, urging that "only those days should be declared public holidays under the Negotiable Instruments Act which are actually required to be devoted to necessary religious ceremonies." To these letters the Government has replied at length reciting the arguments which were accepted by the Government of India in 1880 and 1882. It has been pointed out "that the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community." The Government was unable to comply with the wishes of the Chamber, and on the 11th December 1889 a notification was published in the Gazette, under which the holidays declared under section 25 of the Negotiable Instruments Act will remain the same in 1890 as they have been in previous years.

19. In consequence of the publication of this notification, a deputation from the Chamber, consisting of Sir A. Wilson, Mr. Wylie, Mr. McCaw and Mr. Stuart, waited on the Lieutenant-Governor at Belvedere on the 19th December 1889, and strongly pressed upon His Honour the necessity of reducing the number of holidays under the Act. They laid stress on the alteration which the passing of the Negotiable Instruments Act has introduced into the conditions of the problem since the decision of Government was arrived at in 1879, and they indicated that it might be possible to find a solution of it by restricting the number of holidays gazetted under the Act, but retaining by executive authority the existing number of holidays for all public offices, save the few in Calcutta which are indispensable to the foreign commerce of the port. The question as thus stated deserves very careful consideration.

20. The Negotiable Instruments Act XXVI of 1881 became law subsequent to the discussions of 1879 and 1880. Under section 25 of that Act, when the day on which a Promissory Note or bill of exchange is at maturity is a public holiday, the instrument shall be deemed to be due on the next preceding business day. The expression "public holiday" includes Sundays, New Year's Day, Christmas Day, Good Friday, and any other day declared by the Local Government by notification in the official Gazette to be a public holiday. Under this section the 30 authorised public holidays in Bengal are now published, and the gravamen of the Chamber is, firstly, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, which will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature; and, secondly, that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearance during these days. It is pointed out that in the interval from 30th September to 10th October 1889, which were declared public holidays under the Act on account of the Doorga and Lakhi Poojahs in 1889, the shipping arrivals in the port of Calcutta showed a gross tonnage of 73,210, and a registered tonnage of 48,179; that the departures showed 63,962 gross and 45,538 registered tonnage; that 29 steamers and 2 ships arrived in port, and that 19 steamers and 13 ships left the port. The East Indian Railway brought into the market 25,084 tons of goods, and the Eastern Bengal State Railway 4,52,514 maunds, of which 3,63,875 were jute. The fact that all bills maturing in the interval fell due on Saturday, September 28th, is brought to notice as a most serious inconvenience and burden on the trade of the port. In the discussion that took place in 1879 much stress was laid by the native members of the Committee on the fact that the then existing facilities were sufficient. They urged that, though the Banks were closed, exchange operations might be and were carried on, and, that as a matter of fact, the Banks did take cheques from purchasers of bills during the vacation; and that remittances by telegram or otherwise were not necessarily suspended. The Chamber urge that this is not now the case, and that the Banks have felt it unsafe to do any business at all on holidays gazetted under the Negotiable Instruments Act since that Act came into operation, and consequently that the inconvenience to commerce has become intensified.

21. Of the force of these representations there can be no doubt ; and it is equally clear that it is the duty of the Government to mitigate the grievance if it is possible to do so without imposing greater hardship on others. The question to be examined is whether this can be done by reducing the number of public holidays under the Negotiable Instruments Act, and at the same time increasing the number given in Government offices by the executive order of Government. Mahomedan holidays are now granted by the executive order of Government in the following way :—"It is notified for general information that," on specified dates, "all public offices and Revenue and Magisterial Courts in Bengal, with the exception of the offices of Collector of Customs, Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, the Stamping Department of the Office of the Superintendent of Stamps, Calcutta, and the Salt Rowanah and Opium Sale Departments of the Board of Revenue, shall be closed." The effect of these orders is to give a general holiday in Government offices with the exception of those specified. To those excepted offices special instructions are issued that "though it is not expedient to close them on the days in question, it is hoped that it will be possible to arrange to relieve of their duties on those days any Mahomedan ministerial officers who may apply for leave." The holidays are granted generally, but the trade of the port is not allowed to suffer. It is an arrangement which His Honour believes has been found to give satisfaction to all concerned. What the Lieutenant-Governor would now propose for consideration is that all those days of the Doorga Poojahs, which are not actually required to be devoted to necessary Hindu religious ceremonies, should be notified as holidays in the same way as Mahomedan holidays are now notified, and that only those days which are devoted to religious ceremonies should be notified as public holidays under the Act.

22. An objection which may be brought against this proposal is that on Poojah days, which are not notified under the Act as public holidays, every bank and mercantile office in the city will be kept open. This is the argument which was felt to have so much weight in the discussions of 1879-80. But the objection is less strong than it seems to be. The Banks would be in no worse position—indeed in a better one in regard to enforced closing—than they were in before the Act was passed: whatever force attached to the argument used by the native members of the Committee as to their being able to afford sufficient facilities to commerce without absolutely closing their doors, would acquire additional strength under the present proposal; while in regard to mercantile offices, the Lieutenant-Governor is disposed to doubt whether there will be any very material change. All the merchants in Calcutta now require so many of their clerks as are necessary to carry on business to attend during the holidays; business is not allowed to stop, notwithstanding the closure of the Exchange Banks and Shipping Office; and the Lieutenant-Governor is assured on competent authority that the reduction of the number of holidays under the Act is not likely to appreciably affect the actual attendance of clerks. The merchants of Calcutta have always been ready to give holidays during the days actually devoted to religious ceremonial observance, and all employes in merchants' offices now know very well that a condition of their service is that on other days they are expected to attend office when work has to be done.

23. Sir Steuart Bayley has no doubt that the mercantile community will continue to show every reasonable consideration to their Hindu clerks in regard to attendance. It is to their interest to do so: the work of their offices depends on mutual agreement on both sides. After all, attendance in office is a matter of contract arrangement between employer and servant, and it is impossible to justify any interference on the part of Government, which would insist on mercantile offices remaining without clerks for twelve days at a time. Of course no such interference is really contemplated, but the papers on the subject give some colour for supposing that the claim has sometimes been made. If it is formally abandoned, the objection under discussion must also be given up.

24. On the other hand, I am to point out that a notification in the proposed form will enable Government to give a general holiday in its own offices, excepting those only which are required to remain partially, or it may

be wholly, open to meet the exigencies of commerce. All that is expected from Government is to afford reasonable facilities for carrying on business. This is done in the case of Mahomedan holidays, and ought to be done in the case of Hindu social festivals. The number of Government offices affected is inconsiderable, and the amount of hardship which would be inflicted on the Hindu employes concerned would not be great. The Lieutenant-Governor would, however, strictly enjoin in regard to these excepted offices that the Hindu employes should be allowed their holidays, whenever possible, and that, if it be found impossible to grant them, other concessions in the way of leave at other times should be given.

25. A point which had great weight in influencing the decision in 1879 was that advanced by Mr. Dampier and others that the opening of certain offices at the Presidency would necessarily govern the practice of all or nearly all the other offices in Bengal. It is now argued that this position is no longer tenable as shown by the fact that certain Mahomedan holidays are granted by executive order, and are, as a matter of fact, universally enjoyed in all parts of Bengal, except in certain offices at the Presidency. The opening of these particular offices does not in any way govern the practice elsewhere. It appears to follow that certain Hindu holidays, if notified in the same way as Mahomedan holidays, will be accepted in the same way as Mahomedan holidays are now accepted, and it is urged there is an opportunity of settlement on this basis. The provisions of the Negotiable Instruments Act enable the Government to make a clear distinction between public holidays notified under the Act and holidays notified by executive order: and it seems to His Honour that advantage may be taken of this distinction, which did not exist when the question was formerly under discussion, to sanction arrangements which, while recognizing the claims of the Hindu community, will also satisfy the interests of trade and commerce.

26. It is undoubtedly the case that the attitude of the Chamber becomes a stronger one every year. The proportion of steamers which comes into the port constantly increases, and the requirements of trade are more urgent now than they were ten years ago. The holiday arrangements are proportionately more irksome and impose greater comparative restrictions than they did then. The claims of commercial progress are recognized in other parts of India. It was pointed out by Baboos Kisto Das Pal and Durga Charan Law in 1879 that "the number of holidays in Bengal is less than that in other provinces." But whatever may have been the case in 1879, the exact reverse is the fact in 1889. The number of holidays for 1889 notified under the Negotiable Instruments Act in Madras (including New Year's Day, Good Friday and Christmas Day, which are public holidays under the Act) was 18; in Bombay the number was 21; in Bengal the number was 29. A *prima facie* case is therefore made out for reduction in the number of public holidays notified under the Act. If the number of Doorga Poojah and Lakhi Poojah holidays gazetted under the Act were reduced from 12 to 5, there would still remain 22 public holidays in Bengal, which is a larger number than either at Bombay or Madras, and is, the Lieutenant-Governor understands, a larger number than is allowed in any other country in the civilized world.

27. The Chamber of Commerce have proposed that the total number of public holidays notified under the Act should be reduced to 12 days only as specified in their recommendation, and they have declared that these 12 days "shall be the holidays recognized by the Chamber under shipping orders and charter parties as holidays according to the custom of the port." But the Lieutenant-Governor is not aware of any reason why Government should accept so great a change as this. The Chamber are at liberty to declare what charter party holidays they please; but they cannot expect that the Government should regulate the public holidays throughout the province according to the custom of the Calcutta port. It appears that in Madras the public holidays under the Act are identical with the charter party holidays declared by the Chamber of Commerce. In Bombay, however, the local Chamber of Commerce have fixed the number of their charter party holidays at 14, while the Bombay Government has notified the number of public holidays to be 21. Similarly in Bengal there can be no objection to the Chamber fixing the

number of holidays according to the custom of the port at 12, while the number of public holidays may be 22, or any other number notified by Government under the Act. Moreover, it has been stated that a reduction in the number of continuous Doorga Poojah public holidays will sufficiently meet the contention of the Chamber, which is not so much against the total number of holidays in the year as against the obstruction to business occasioned by the occurrence of 12 public holidays in succession. Although objection has been taken to the continuous character of the Christmas holidays which, now when Sundays are included, usually amount to five days in succession, it has not been pressed home with the same persistence as the objection to the Doorga Poojah holidays, which are at present also continuous and are more than twice as long in duration. It is only in regard to the Doorga Poojahs, therefore, that the Lieutenant-Governor is disposed at present to consent to any reduction in the number of public holidays under the Act. The other public holidays might remain unchanged for the present. It is desired by the Chamber that if any change is made it should take effect from the year 1890, and the Lieutenant-Governor proposes to take action as he may be advised in this respect.

28. I am to sum up this letter as follows:—

It is proposed to notify holidays in Bengal under two separate notifications: first, in regard to public holidays notified as such under the Negotiable Instruments Act; and, secondly, in regard to holidays which are notified as such by the closure of public offices. These two separate notifications would be in the form given, and apply to the days specified in the draft notifications annexed.

In addition to any remarks on the general question which may be offered, the Lieutenant-Governor desires to be favoured with an opinion on the following points:—

- (1)—Whether the effect of the publication of these notifications will be to make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only, in so far that the Exchange Banks will remain closed on the “public holidays” only, and not on the other days.
- (2)—Whether the effect of the publication of these notifications will wholly or partially meet the growing requirements of trade and commerce.
- (3)—Whether the effect of the publication of these notifications will be to inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy.
- (4)—Whether the proposals now made are accepted by ^{the Chamber}_{your Association} as a reasonable present compromise between interests which admittedly conflict with one another.

29. The third question, as to the effect on the general community of notifying the non-compulsory days of the Doorga Poojah as holidays by executive action instead of under the Negotiable Instruments Act, is the most important, and that to which your attention is specially invited. The Lieutenant-Governor would in no case make a change without the previous sanction of the Government of India, and he desires to lay the question before His Excellency in Council with the fullest light that previous enquiry can throw upon it.

30. In conclusion, I am to say that the Lieutenant-Governor will be glad to obtain an answer to this letter at the ^{Chamber's}_{Association's} early convenience.

ANNEXURE.

DRAFT NOTIFICATION.

The 1890 — Under section 25 of Act XXVI of 1881, entitled "The Negotiable Instruments Act, 1881," the Lieutenant-Governor hereby declares the following days to be public holidays during the year 1890:—

25th January	...	...	...	Sripanchami.
6th March	...	...	...	Dolejatra.
5th April	...	...	...	Easter Saturday.
12th "	...	...	...	Chaitsankranti.
24th May	...	...	...	Empress' Birthday.
29th "	...	...	...	Dashahara.
7th August	...	...	...	Janmashtami.
13th October	...	...	...	Mahalaya.
20th, 21st and 22nd, 27th and 28th October	...	...	...	Doorga and Lukhi Poojahs.
11th and 12th November	...	...	...	Kali Poojah.
20th and 21st "	...	...	...	Jagadhatri Poojah.
24th, 26th and 27th December	...	...	...	The day preceding and two days following Christmas Day.

Sundays, New Year's Day, Good Friday, and Christmas Day are public holidays under the Act.

Offg Secy. to the Govt. of Bengal.

DRAFT NOTIFICATION.

The 1890.—With reference to the above notification, the Lieutenant-Governor hereby notifies that on the following days during 1890, which are not declared to be "public holidays," the offices under the Government of Bengal, and all Revenue and Magisterial Courts in Bengal, with the exception of the offices of Collector of Customs, Shipping Master, the Registrar of Assurances, Calcutta, the Collector of Stamp Revenue, Calcutta, the Stamping Department of the Office of the Superintendent of Stamps, Calcutta, and the Salt Rowannah and Opium Sale Departments of the Board of Revenue, shall be closed:—

I.—MAHOMEDAN HOLIDAYS.

Eed-ul-fitr, which falls on the 21st May, or, if the moon be not visible on the 20th May, on the 22nd May.
 Eed-ul-zoha, which falls on the 28th July, or, if the moon be not visible on the 18th July, on the 29th July.
 Mohurram, the last two days of which fall on the 26th and 27th August, or, if the moon be visible on the 16th August, on the 25th and 26th August.
 Fatiah-doaz-dahum, which falls on the 27th October, or, if the moon be not visible on the 15th October, on the 28th October.

II.—HINDU HOLIDAYS.

Doorga Poojah, the 18th, 23rd, 24th and 25th October; Lukhi Poojah, the 29th October.

Offg. Secy. to the Govt. of Bengal.

No. Mis. ^{1-H}₁ 23, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
 To—The Secretary to the Board of Revenue, Miscellaneous Revenue Dept.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to request that the Board will be so good as to obtain the opinions of the Collector of Customs, of the Superintendent of Stamps, and of

the Collector of Stamp Revenue, Calcutta, on the proposals therein contained, and to submit them with their own opinion for the information of the Lieutenant-Governor.

1. To the Secretary to the Bengal Chamber of Commerce.
2. " " " " National Chamber of Commerce.
3. " " " " Calcutta Trades' Association.
4. " " " " British Indian Association.
5. " " " " Indian Association.

No. Mis. $\frac{1-H}{1}$ 24, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Superintendent and Remembrancer of Legal Affairs.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to enquire, with reference to the notification which has already been published at page 1010 of Part I of the *Calcutta Gazette* of 11th December 1889, if there would be any legal objection to the supersession of this notification by the publication of another notification such as is proposed for the public holidays of the current year. It is necessary to consider this point before deciding whether any change in regard to public holidays should apply to the year 1890.

1. To the Secretary to the Bengal Chamber of Commerce.
2. " " " " National Chamber of Commerce.
3. " " " " Calcutta Trades' Association.
4. " " " " British Indian Association.
5. " " " " Indian Association.

Nos. Mis. $\frac{1-H}{1}$ 25-33, dated Calcutta, the 19th January 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary and Treasurer of the Bank of Bengal; Agent of the Chartered Bank of India, Australia, and China; Agent, Chartered Mercantile Bank of India, London, and China; Agent, Hongkong and Shanghai Bankers' Corporation; Manager, Delhi and London Bank Limited; Manager, National Bank of India; Manager, Comptoir D'Escompte de Paris; Manager, Agra Bank; Manager, Oriental Bank.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the undermentioned Chambers and Associations, and to request that you will be so good as to favour me, for the Lieutenant-Governor's information, with your opinion on the proposals therein contained.

1. To the Secretary to the Bengal Chamber of Commerce.
2. " " " " National Chamber of Commerce.
3. " " " " Calcutta Trades' Association.
4. " " " " British Indian Association.
5. " " " " Indian Association.

Nos. Mis. $\frac{1-H}{1}$ 34-35, dated Calcutta, the 20th January 1890.

From—C. CUTHBERTSON, Esq., Under-Secy. to the Govt. of Bengal, Financial Dept.,
To—The Registrar of Assurances, Calcutta, and Shipping Master, Calcutta.

I AM directed to enclose a copy of a letter on the subject of public holidays in Bengal, which has been addressed to the Chambers and Associations mentioned in the margin, and to request that you will be so good as to submit, for the information of the Lieutenant-Governor, your opinion on the proposals therein contained.

Bengal Chamber of Commerce.
Bengal National Chamber of Commerce.
Calcutta Trades' Association.
British Indian Association.
Indian Association.

No. $\frac{S}{107}$, dated Calcutta, the 30th January 1890.

From—LIEUT. E. W. PETLEY, R.N., Port Officer and Shipping Master, Calcutta,
To—The Under-Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letter No. Mis. $\frac{1-H}{1}$ 35, dated the 20th instant, and annexure, calling for the opinion of this office in respect of certain proposals relating to the public holidays in Bengal, and in reply to state that it appears to me that the proposal contained in paragraph 29 of the letter of the Government of Bengal, Nos. Mis. $\frac{1-H}{1}$ 18-22 of the 19th idem, will meet the requirements of the mercantile community as represented by the Chamber of Commerce and the Trades Association; but I fear the publication of the proposed double notification will cause hardship to the Government employes who will be deprived of their holidays. My reason for such opinion is based on the following grounds:—

In the six departments and offices which the notification will affect, the bulk of their establishments is composed of Hindus, who usually take this opportunity of visiting their country homes during the Doorga Pooja vacation. These homes, I understand, are mostly ancestral properties, where the social system of the Hindus, being of a patriarchal type, all the relatives, close and distant, of the holders of these properties meet from the different parts of India, and this deprivation of intercourse between relatives, &c., is the hardship which will chiefly be felt, and which concession in the way of leave, &c., at other times, when families are again separated, will hardly satisfy.

No. 75, dated Calcutta, the 3rd February 1890.

From—BABOO PRATAP CHANDRA GHOSHA, Registrar of Calcutta,
To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letter No. $\frac{1-H}{1}$ 34Mis., dated the 20th ultimo, forwarding copy of letter No. $\frac{1-H}{1}$ 18-22Mis. of the Financial Department, with its annexure of draft notification regarding the holidays to be observed in public offices, for opinion and report.

1. In reply, I beg to submit my views on the point indicated in paragraph 29 of your letter *seriatim*.

(1) The publication of the notification, draft of which has been annexed to the letter under reply, will, in my humble opinion, make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only in so far that the exchange banks will remain closed on the "public holidays" only and not on the other days. The excepted offices will, as a matter of fact, be kept wholly open, and although the benevolent special instructions of the Government direct that, though it is not expedient to close them on the days in question, it is hoped that it will be possible to relieve of their duties on those days any ministerial officers whose religious requirements compel them to apply for leave, the heads of departments as a matter of fact will find great difficulty in extending that privilege, exigencies of the service constraining them to refuse the just claims of the poor clerks who cannot force themselves into the notice of the higher authorities without suffering seriously in return. The Government cannot be unaware that it is as much difficult for poor clerks to make their grievances heard as it is for Government to make the heads of departments carry on their business with a portion of their establishment in attendance.

(2) I believe the effect of the publication of these notifications will wholly meet the growing requirements of trade and commerce. It is not for me to remark that whether the mercantile community have proved that they have any real complaint to make. The Negotiable Instruments Act was passed in 1881. And in 1888 and 1889 the Government has been pleased to negative the Chamber's representations because the inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous though less influential portion of the community. With-

in this short interval, forgive me if I say no new circumstance has intervened as to justify the reversal of the most noble, wise, and statesman-like ruling the Bengal Government issued in 1889, *i.e.* last year. In my humble opinion, further enquiries are necessary to ascertain the exact nature of the loss complained of by the mercantile community. The inconvenience arising from the closure of the exchange bank may easily be removed without the direct interference of Government; for, as the constituents of these banks are members of the mercantile community, they may be kept open or close at their pleasure.

(3). I cannot help confessing that the publication of these notifications will not only inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy, but will extend its evil effects not only to the Hindoo community at large but to all classes of population in Calcutta. In these days, when the demonstrative feeling of the community is in its highest tension, a curtailment as indicated by the notification is likely to wake up invidious distinction in the minds of the Hindoo community especially, for within the last couple of years, while the Government has recognised the propriety of closing offices on days of Mahomedan festivals, a backward movement has been evinced in the case of the Hindoo community by the deprivation of the privileges which the latter have been enjoying ever since the British flag was unfurled from the towers of Fort William. For nearly two centuries the Government has not thought it proper to recognise the rights of the Mahomedan community of Calcutta, and the good which the extension of the privileges to that section of the community by closing public offices on Mahomedan festivals is calculated to secure will, I am constrained to admit, be greatly counterbalanced by the unpleasantness which the contemplated curtailment will create in the minds of the Hindoo community. I need not add that such a curtailment will, in addition to the unpleasantness mentioned above, materially injure and inconvenience the public non-trading community generally.

2. The question of the number of public holidays in the Bengal Province has been the subject of much discussion for upwards of a quarter of a century, and although the mercantile community of Calcutta, represented by the Bengal Chamber of Commerce and the Calcutta Trades' Association, have been urging for the last 30 years the desirability of affording greater facilities to the trade by reducing the number of Hindoo holidays observed in public offices, considerations of privations and difficulties to which the general community as well as the clerks would be subjected have always influenced the patriarchal Government in ruling otherwise. The attitude of the Chamber has, however, become stronger every year, and it may be surmised that some inconvenience and loss are sustained by the mercantile community owing to the long Doorga Poojah vacation which under the Negotiable Instruments Act have become public holidays, and that that loss is principally due to the closing of the following offices:—

- (1) The Office of Collector of Customs.
- (2) " " Shipping Master.
- (3) " " Collector of Stamp Revenue.
- (4) " " the Stamping Department of the Superintendent of Stamps.
- (5) " " the Salt Rowannah and Opium Sale Department of the Board of Revenue.

3. It will be observed that from the list I have excluded the office of the Registrar of Assurances, Calcutta, and my reason for doing so I will have the honour to submit further on. It is not for me to say that the customs and habits of the country of adoption of the mercantile and trading community should bear some weight in determining the question of holidays and balance of convenience, nor am I justified to refer in detail to the accommodations already provided for by keeping open the Customs and the other offices, but I cannot help observing that the period of 12 days already fixed for the Doorga Poojah vacation is the minimum to which it can possibly be reduced.

4. The proposal regarding the curtailment of public holidays, as has been set forth in the Government letter, has to be considered in its two different aspects—firstly, in so far as it will affect the general public by the opening or closure of the public offices generally; and secondly, in so far as it will affect them by the opening or closure of the office of the Registrar of Assurances, Calcutta.

5. As regards the first side of the question I need not repeat the arguments already before the Government, as they had been put forth by abler and more influential members of the community. As a Hindoo officer and having a certain number of Hindoo clerks under me, and having to deal with all classes of Hindoo and mercantile community of Calcutta, I cannot but record that the Doorga Poojah vacation is already too short. I do not know what interested political pundit has induced the Government to believe that the real Doorga Poojah ceremonies occupy only three days. There is not a Hindoo pundit or layman who can say that the real Doorga Poojah does not extend over a period of more than fifteen days. It commences on the ninth day of the waning moon and ends on the tenth day of the waxing fortnight following. It may be said that there are not many families in Calcutta who observe the ceremony for such a long period—that is to say, who observe the *Navamyádi Kalpa*; but the same argument may be urged against the “three days” (correctly five days ceremony,” for, as a matter of fact, there are few families who observe even the same. Properly speaking, the minimum observance of the poojah occupies five days, for it commences on the sixth and ends on the tenth day of the waxing moon. But the Doorga Poojah of the Hindoos of to-day is in one sense more important than the great *Asvamedha* (horse sacrifice) of the Vedic period, inasmuch as the horse sacrifice was observed by the ruling sovereigns only, while the Doorga Poojah (the *Asvamedha* of the Iron age) is observed by all classes of people—nay, it is said in the Shastras that it is to be observed by the *Mlechhas*, Savaras, and all non-Hindoo races; besides, the *Asvamedha* was a free will offering, while the Doorga Poojah to every Hindoo is a compulsory observance and not to observe it is a sin; and although the actual worship may not occupy a longer period, the preparations, the collections of a thousand and one things for the proper performance of the ceremony cannot possibly be made in a short time. Besides, the five days and nights are fully occupied in observing ceremonies both social and religious. On the tenth day, until the idol is placed in the water, many Hindoo families observing fast do not prepare their food, and many a family invite their friends close upon midnight of the tenth day of the moon and feast together. It is unnecessary to repeat that all the arrangements for sending ladies to their fathers’ house or bringing them back to their husbands fall on the nine auspicious days of the Doorga Poojah so well known throughout India as the *Navaratri*. And last, though not the least, is the ceremony of the autumnal *Navánna*, a ceremony observed on the income of the new crop, which is pre-eminently directed to be observed in that fortnight of the month of *Asvin* when the Devi is worshipped.

6. As regards the second side of the question, the office of the Registrar of Assurances, Calcutta, is not much resorted to by the mercantile community for any urgent or ephemeral or temporary accommodation of business, for, under the Act, such negotiable instruments have been classed under the optional heads. I have not as yet had an occasion to register a single on-demand note, promissory note, hundi, &c., and documents of that nature executed by the mercantile or trading community of Calcutta in course of their business. All such transactions are primarily kept confidential, and the mercantile community loathe to give publicity to such deeds which affect their commercial credit. The only class of deeds for which they resort to this office are of a permanent nature such as leases, mortgages and conveyances, which, under the Act, may be presented any time within four months from the date of execution. Powers of attorney alone of persons abruptly leaving Calcutta not previously arranged may require the Registrar to authenticate during the 12 days’ vacation. But the wide distribution of registration offices throughout India and the more liberal provisions of section 33, clause (b), have provided for all such contingencies. It will thus be seen that the closing of the office of the Registrar of Assurances, Calcutta, is not likely to inconvenience the mercantile community any way.

7. I beg to append a statement showing the number of registrations effected by merchants and traders and also by the non-trading community of Calcutta during the first 15 days following the expiry of the Doorga Poojah vacation. It will be seen that the table contains statistics of the past 20 years, and the figures in column 3, which show the number of registrations by merchants and traders, fully corroborate the fact that the Calcutta Registry Office is rarely resorted to by the mercantile community of Calcutta during the period which intervenes between the expiry of the 12 days' Doorga Poojah vacation and the re-opening of the Court of Small Causes, Calcutta. I have left out figures for the five years preceding the two decades, as my office records do not show any important transactions by merchants and traders during that period. It will also be seen from the statement that even of the few registrations relating to purely mercantile transactions a good portion were powers of attorney, a class of documents of not an urgent nature, as has already been noticed. Although it is out of place to mention here and in the face of the proposals for curtailment of holidays, I cannot help observing that the office of the Registrar of Assurances, Calcutta, may be kept closed with the Court of Small Causes, Calcutta, without putting the mercantile community of Calcutta to any the least inconvenience and loss.

Statement showing the number of Registrations effected during the first fifteen days following the opening of the office after the Doorga Poojah vacation.

YEAR.	Number of registrations by persons other than merchants and traders.	Number of registrations by merchants and traders.	REMARKS.
1870	90	2	Powers of attorney.
1871	95	2	Ditto.
1872	81	8	Of which two were powers of attorney.
1873	76	5	Ditto one ditto ditto.
1874	75	9	Ditto five ditto ditto.
1875	91	14	Ditto five ditto ditto.
1876	76	13	Ditto seven ditto ditto.
1877	98	8	Ditto four ditto ditto.
1878	85	11	Ditto five ditto ditto.
1879	137	14	Ditto four ditto ditto.
1880	83	9	Ditto two ditto ditto.
1881	98	9	
1882	97	12	Ditto four ditto ditto.
1883	75	7	Ditto four ditto ditto.
1884	119	5	Ditto two ditto ditto.
1885	98	8	Ditto three ditto ditto.
1886	91	8	Ditto one ditto ditto.
1887	97	9	Ditto two ditto ditto.
1888	107	12	Ditto three ditto ditto.
1889	83	8	Ditto one ditto ditto.

No. 1328, dated Calcutta, the 4th February 1890.

From—T. T. ALLEN, Esq., Superintendent and Remembrancer of Legal Affairs,
To—The Secretary to the Government of Bengal, Financial Department.

WITH reference to your No. $\frac{14}{1}$ 24 of the 19th ultimo, having consulted with the Advocate-General, I have the honour to say that there appears no legal obstacle in the way to prevent Government from cancelling the notification of public holidays already published, and substituting in its place a new list.

No. 73, dated Calcutta, the 7th February 1890.

From—S. E. J. CLARKE, Esq., Secretary, Bengal Chamber of Commerce,
To—The Offg. Secy. to the Government of Bengal, Financial Department.

THE Committee of the Chamber of Commerce have perused with great interest the able and clear *resumé* of the holiday question contained in your

letter No. Mis. $\frac{1-H}{1}$ 18 of the 19th January, and they cheerfully acknowledge the admission contained in your paragraph 27 that the holiday arrangements under the "Negotiable Instruments Act" are proportionately more irksome and impose greater restrictions now than they did ten years ago, because the requirements of trade are more urgent now than they were then. This admission recognises the principle for which the Chamber of Commerce has so long contended, and renders it unnecessary for the Committee to follow you in your review of the discussion.

There is, however, a statement in your paragraph 25 which the Committee are glad to see made you say that "all that is expected from Government is to afford reasonable facilities for carrying on business. This is done in the case of Mahomedan holidays, and ought to be done in the case of Hindu social festivals."

The Committee are bound to say that they can see no reason why a distinction should be made in the treatment of Hindu and Mohomedan holidays, and they regard with satisfaction the manner in which His Honour the Lieutenant-Governor has, in your paragraph 26, approached this point.

I am to point out that the Committee of the Chamber of Commerce have taken equal exception to continuous holidays at Christmas with continuous holidays at the Doorga Poojas, and that in my No. 944 of 22nd November last, they suggested that the holidays at Christmas time should be restricted to Christmas Day and the day after—December 25th and 26th. In the notification which accompanied your letter under reply, the Christmas holidays for 1890 are from the 24th to 27th December, both days inclusive; as the 28th December falls on a Sunday, this means that business must close on a Tuesday, a mail day, and remain closed till the following Monday. There is no reason that they can see for making December 24th a holiday, and they would suggest that the draft notification be amended accordingly.

In the Doorga Pooja holidays, they would point out that the notification would close business from Saturday, October 18th, to Thursday, October 23rd, and they would suggest, for the consideration of His Honour the Lieutenant-Governor, that the 23rd October might be transposed with the 22nd in the lists under the "Negotiable Instruments Act" and Hindu holidays respectively.

This brings them to the points set out in your paragraph 29, as those on which Sir Steuart Bayley desires an expression of opinion:—

- (1) The Committee are clearly of opinion that the effect of the publication of the notifications suggested will be to make a clear distinction between public holidays under the "Negotiable Instruments Act" and those notified by executive order only.
- (2) They are further of opinion that the effect of the publication of the notifications will partially meet the growing requirements of trade and commerce.
- (3) They do not consider the effect of the publication of the notifications will be to inflict serious hardship on a considerable section of the community, by depriving them of holidays which they now enjoy.
- (4) And lastly, the proposals now made, with the exception suggested as to Christmas, are accepted by the Chamber as a reasonable present compromise between interests which admittedly conflict with one another.

The Committee would suggest that the notifications, amended as they have ventured to suggest, should be published in the *Calcutta Gazette*, and they would be glad to give them, when they appear, the widest circulation possible.

In conclusion, I am to repeat, generally, the request made in my No. 944 of 22nd November, that the Chamber may be permitted an opportunity of considering the holidays the Government may propose to declare under the "Negotiable Instruments Act" before such holidays are published in

the Gazette. This request is made on the ground that it would considerably assist the Chamber in settling the holidays under Charter Parties and Shipping Orders.

Dated Calcutta, the 10th February 1890.

From—W. D. CRUICKSHANK, Esq., Secretary and Treasurer, Bank of Bengal,
To—The Offg. Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge receipt of your letter No. Mis. 14 25 of the 19th ultimo, enclosing copy of a letter on the subject of public holidays in Bengal, which had been addressed by you to certain Chambers of Commerce and Associations, and requesting to be furnished with the Bank's opinion on the proposals therein contained for the Lieutenant-Governor's information.

With regard to the proposal to notify public holidays in Bengal under two separate notifications, the first in regard to public holidays notified as such under the Negotiable Instruments' Act, and the second by executive order only, I am instructed by the Directors to state that they consider that the effect of the publication of separate notifications, in the manner proposed, will be to make a perfectly clear distinction between public holidays notified under the Negotiable Instruments Act and public holidays notified by executive order only; and that the distinction will be sufficiently obvious to avoid all risk of Exchange Banks so misunderstanding the effect of the separate notifications as to remain closed on days which are not notified as public holidays under the Act.

As regards the second point on which an expression of the Bank's opinion is sought, I am instructed by the Directors to state that they consider that the effect of the publication of the notifications proposed will not be sufficient to meet the present requirements of trade and commerce, and that they agree with the proposals of the Chamber of Commerce that the total of public holidays in the year to be notified under the Negotiable Instruments Act should be reduced to 12 in number. They desire in particular to draw the attention of the Government to the fact that very great inconvenience is caused by two or more holidays falling on consecutive days, and they trust that, so far as may be possible, this inconvenience may be obviated.

As regards the third question, the Directors consider that the effect of the publication of the notifications will not inflict any hardship whatever on a considerable section of the community; and even were the number of holidays under the Act reduced to the number proposed by the Chamber of Commerce, they think that the amount of hardship, if any, would be so infinitesimal as hardly to be considered of weight as against the benefit to the mercantile community which would be effected by a further reduction in the number of public holidays. The Directors believe that the mercantile community have hitherto shown, and will continue to show, every reasonable consideration to their Hindu clerks in regard to attendance, and they have no doubt that if the number of holidays notified under the Act be reduced, arrangements will be very generally made to grant compensation to native clerks in the shape of holidays at other times.

In regard to the fourth point, the Directors consider that the proposals of the Government of Bengal may be generally accepted as an instalment only, for the time being, of the reductions in the holidays necessary to relieve trade of the restriction under which it now labours.

It is noticed that it is proposed that the reduction in the number of holidays shall take effect during the present year. The Directors are very desirous that the reduction should come into force as soon as possible, but it has occurred to them that the Government may not have power, after having once published the notification in the Gazette on 11th December 1889, to alter that notification by reducing the number of days once declared to be public holidays under the Act, and that any such alteration might interfere with business arrangements entered into on the basis of the existing notification. These points will doubtless receive the Lieutenant-Governor's consideration.

No. M ^{1-H}₂8, dated Calcutta, the 11th February 1890.

From—The Agent for the Chartered Mercantile Bank of India, London, and China; the Agent for the Chartered Bank of India, Australia, and China; the Manager of the Delhi and London Bank, Limited; the Manager of the National Bank of India, Limited; the Agent for the Hongkong and Shanghai Banking Corporation; the Manager of the Agra Bank, Limited; the Acting Manager of the Comptoir National D'Escompte de Paris; the Acting Agent for the New Oriental Bank Corporation, Limited.

To—The Offg. Secretary to the Government of Bengal, Financial Department.

WE, the undersigned, have the honour to acknowledge the receipt of your letter of 19th ultimo, requesting us to state our opinion on the proposals contained in your letter of same date to the Chamber of Commerce and others. In accordance with this request we beg herewith to submit the following remarks.

We believe that with the increasing volume of trade at this Port, but more especially owing to keen competition in trade generally, it has become a necessity with some merchants at this Port to curtail holidays as much as possible. They say that the obstruction to trade caused by the holidays known as the Doorga and Lukhi Poojas would, if business were closed for 12 days, be seriously injurious to them. The Exchange Banks do not feel the inconvenience to the same extent as others, and would be glad to retain these holidays intact for the benefit both of their European and Native employés. They have, however, for some years recognised that a section of the mercantile community have seemed to have some claim on them for assistance at that season, and have accordingly opened on a certain number of days during the said holidays for the transaction of urgent, though not of ordinary business. This half-and-half way of opening is attended by several inconveniences, some of which affect our customers and some ourselves. As to the latter, it is enough to state that on any day which is a holiday under the Negotiable Instruments Act we cannot legally collect bills receivable nor pay bills payable, and it seems doubtful whether even cheques can be legally paid or presented. Such conditions throw more responsibility on us than we deem it desirable to undertake, and we should prefer, if we open at all, to open only on days which are not holidays under the Negotiable Instruments Act. Our assent or dissent to the proposal to reduce the number of Doorga Pooja holidays from 12 days to 5 depends on whether the necessity to open attaches to a large or comparatively small section of the mercantile community. We do not assert that it is only a small and specially interested section of the community who desire to reduce the holidays, but we hear so many different opinions expressed that it is at least open to doubt whether a majority of the community is in favour of fewer holidays. It has not been effectively demonstrated by general vote or otherwise whether reduction of holidays finds favor or disfavor among the majority at the present time. We can at present therefore only state that, while we should be opposed to any reduction in favor of a minority, we should not wish to oppose the interests of the majority.

We do not think the exigencies of trade are such as to call for the reduction of any of the other holidays notified under the Negotiable Instruments Act.

In reply to the four questions at the end of your letter—

1. Under the change proposed the Exchange Banks would remain closed only on days notified as holidays under the Negotiable Instruments Act.
2. We believe that no further reduction is necessary to meet the growing requirements of trade and commerce.
3. The reduction proposed means exactly so many days fewer holidays to the employés of Exchange Banks, and is to that extent a hardship.
4. We should accept the proposal as a reasonable concession to our customers only on the conditions named.

No. 985, dated Calcutta, the 17th February 1890.

From—H. J. S. COTTON, Esq., Offg. Secy. to the Govt. of Bengal, Financial Dept.,
To—The Secretary to the Bengal Chamber of Commerce.

WITH reference to the correspondence ending with your letter No. 73, dated the 7th February 1890, regarding public holidays in Bengal, I am

* Dated 11th February 1890.

directed to forward the enclosed copy of a letter* from the Agents and Managers of the Exchange Banks in Calcutta on the subject. The Chamber will observe that the Banks are prepared to accept the proposals made in my letter No. $\frac{1-H}{1}$ 18, dated the 19th January 1890, provided that the majority of the mercantile community is in favour of them, but they add that "it has not been effectively demonstrated by general vote or otherwise whether reduction of holidays finds favour or disfavour among the majority at the present time."

2. I am desired to request that the Chamber will be so good as to inform the Lieutenant-Governor whether there is a considerable minority of their members opposed to any change. The Lieutenant-Governor has no doubt that the opinion of the Chamber as a body has been expressed in the letter already received from their Secretary; but, with reference to the observation made by the Exchange Banks, it would be more satisfactory to Government if, with the permission of the President and Committee, it could be stated approximately how far the doubt expressed by the Banks, "whether a majority of the (mercantile) community is in favour of fewer holidays," can be set at rest by reference to the relative number of supporters of either view among the members of the Chamber.

No. 131-90, dated Calcutta, the 26th February 1890.

From—S. E. J. CLARKE, Esq., Secretary, Bengal Chamber of Commerce,
To—The Secretary to the Government of Bengal, Financial Department.

THE Committee of the Chamber of Commerce desire me to reply to your No. 985, dated 17th February, in which you state, as a deduction from a remark occurring in a letter dated the 11th of February on the subject of holidays, addressed to Government by the Agents and Managers of the Exchange Banks in Calcutta, that it would be more satisfactory to Government if it could be stated approximately, by a reference to the relative number of supporters of either view among the members of the Chamber, "whether a majority of the (mercantile) community is in favour of fewer holidays."

This appears to be an invitation to the Committee to take a vote of the Chamber on the question whether they do, or do not, represent the views of those by whom they were elected.

As regards the remark of the Exchange Banks, I am to say that the Government will attach to it no doubt just so much weight as it deserves. But the doubt expressed by the Banks had never, until you favoured the Committee with a copy of their letter, been expressed to the Committee. The representatives of five Banks met the Committee on 5th September last in conference on the subject of holidays. Further, on 27th December, and again on 24th of January, a representative of the Exchange Banks attended meetings of the Committee. But on neither of these three occasions was the question raised which you have now brought to notice. The Exchange Banks, I am to say, have not sent in to the Chamber a copy of their letter of the 11th of February.

It is known to His Honour the Lieutenant-Governor that the Committee of the Chamber is now in a special manner, as compared with what formerly obtained, representative.

As to the attitude of the Chamber on this holiday question, I am to point out that the first step taken by the Committee was in obedience to a mandate of a general meeting held on the 11th December 1860, and that during the intervening period of more than 29 years the attitude of all the previous Committees in office has been consistent, has been supported by the Chamber, and has never, until now, been questioned as representing the wishes of the mercantile community. That attitude can to-day be correctly expressed in the

following extract from a letter addressed by the Chamber to the Government of Bengal so far back as 27th of November 1878:—

“The Committee do not undervalue the convenience attending the entry and clearance of vessels during the holidays, and the partial importation and exportation of merchandise on passes obtained in anticipation of the holidays; but these operations are after all only a fraction of the general business of the port, which is practically prevented from being carried on during that long interval: for while the Bank of Bengal and the other banking establishments are compulsorily closed, a general suspension of business, for a period longer than takes place in any other port in the world, is inevitable, and the inconveniences resulting from such a system are of such grave concern to the commercial community that their interests urgently call for a material amendment of the recognition which these holidays receive from Government.”

Reviewing the whole history of this controversy, and their own position in relation to it, the Committee can see no reason for complying with the suggestion you seem to have put forward, that they should take a vote of the Chamber and must accordingly decline to take any such action.

No. 173, dated Calcutta, the 7th March 1890.

Demi-official from—S. E. J. CLARKE, Esq., Secretary to the Bengal Chamber of Commerce.

To—The Secretary to the Government of Bengal, Financial Department.

THE Committee of the Chamber of Commerce, although unable to comply with the suggestion of Government that a formal vote of the Chamber should be taken on the question whether the views as to holidays under the Negotiable Instruments Act, advocated by the Committee, were the views of the majority of the Chamber, yet agreed with the late President, the Hon'ble Sir Alexander Wilson, to take advantage of the opportunity afforded by the Annual Ordinary General Meeting to remove the matter beyond doubt. Sir Alexander Wilson, therefore, referred to this phase of the holiday question in his address, and in the course of the proceedings called for an informal vote on the point as an expression of the Chamber's opinion. The result was an unanimous confirmation of the views expressed by the Committee.

I enclose for your information a list of those present.

BENGAL CHAMBER OF COMMERCE.

28th February 1890.

ANNUAL ORDINARY GENERAL MEETING.

The following gentlemen were present:—

J. H. Ashworth, Esq.	} Messrs. Ewing and Company.
A. C. Young, Esq.	...	...
P. Playfair, Esq.	...	...
W. Wilson, Esq.	} „ Barry and Company.
Hon. C. H. Moore	...	...
A. B. Struthers, Esq.	} „ Gillanders, Arbuthnot and Company.
C. E. Smyth, Esq.	...	...
H. B. H. Turner, Esq.	} „ Turner, Morrison and Company.
G. H. Morrison, Esq.	...	...
E. D. Wylie, Esq.	} „ Mackinnon, Mackenzie and Company.
J. L. Mackay, Esq.	...	...
Hon. Sir A. Wilson	} „ Jardine, Skinner and Company.
D. W. Campbell, Esq.	...	...
Robt. Williamson, Esq.	} Agent, East Indian Railway Company.
W. A. Bankier, Esq.	...	...
W. W. Petrie, Esq.	} Messrs. Finlay, Muir and Company.
James Turner, Esq.	...	...
L. A. Ralli, Esq.	} W. Vale King and Company.
L. P. Lutrari, Esq.	...	...
T. Horne, Esq.	} „ Ralli Brothers.
W. J. M. McOaw, Esq.	...	...
Geo. Cheetham, Esq.	} „ Horne, Dunlop and Company.
Reg. Murray, Esq.	...	...
			} „ Kettlewell, Bullen and Company.
			} „ George Henderson and Company.
			} Agent, Chartered Mercantile Bank of India, London and China.

Shama Churn Law, Esq. ...	...	Messrs. Pran Kissen Law and Company.
J. N. Stuart, Esq. ...	...	„ Balmer, Lawrie and Company.
F. G. Hickson, Esq. ...	...	„ Macknight, Anderson and Company.
T. W. Anderson, Esq. ...	...	„ Dyce Nicol and Company.
J. Dyce Nicol, Esq. ...	...	„ Gisborne and Company.
Geo. W. Walker, Esq. ...	...	„ Kelly and Company.
W. H. McKewan, Esq. ...	...	„ Carlisles Nephews and Company.
S. Keith Douglas, Esq. ...	...	„ Lorraine King and Company.
Lorraine King, Esq. ...	...	„ D. B. Mehta and Company.
R. D. Mehta, Esq. ...	...	„ Hurry Dass Dutta and Company.
Rama Kant Sen, Esq. ...	...	„ Mackenzie, Lyall and Company.
Charles Brock, Esq. ...	...	„ Blackwood, Blackwood and Company.
E. Henry, Esq. ...	...	„ Mitchell, Reid and Company.
John Hay, Esq. ...	...	„ Ram Chund Seal and Company.
Doorga Doss Seal, Esq. ...	...	„

Dated Calcutta, the 24th February 1890.

From—G. HICKIE, Esq., Secretary, Calcutta Trades Association,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letter No. $\frac{1-H}{1}20$, dated 19th January, on the subject of public holidays in the Province of Bengal.

2. The Committee of the Trades Association have noticed with much satisfaction that this matter is again receiving the attention of the Government. From the statement of facts set out in your letter, it is abundantly manifest that the whole question of public holidays is one of great importance to the mercantile and trading community of Calcutta, and the Committee trust that the present consideration of the subject will result in a settlement which will be more satisfactory to all interests.

3. The Trades Association, as far back as the year 1875, addressed the Government of Bengal on the injury inflicted on the commerce of the Port by the prolonged suspension of business during the Doorga Pooja vacation, and the arguments then advanced have not lost any of their force. The inconvenience and loss to the business portion of the European community, characterised by the Government itself as “great and vexatious,” continue to be felt, and will increase unless the reasonable claims of those who suffer from the existing state of things and earnestly seek a remedy are adequately met.

4. There is another feature of the question which should not be overlooked. Calcutta is the centre of business for the whole of Upper India, and the cessation of business in Calcutta for twelve consecutive days causes very serious loss and inconvenience to the large community outside Lower Bengal who know nothing of the Doorga Pooja holidays and have no sympathy with them.

5. It is gratifying to the Association to learn from your letter that His Honour the Lieutenant-Governor proposes that only those days of the Doorga Poojas “which are devoted to religious ceremonies should be notified as public holidays under the Negotiable Instruments Act.” It was precisely on this basis that the Association, in its representation of March 1875, contended that these holidays should alone be maintained, and the Committee feel sure that the justice which marks His Honour’s proposal will commend itself to those who regard the question in all its bearings without feeling or prejudice. His Honour has now, it is noticed, expressed his willingness to limit the number of these holidays to five days under the Negotiable Instruments Act, and to allow a similar number of holidays for the Doorga Poojas by executive order, the latter number to be applicable to certain specified offices under the Government of Bengal. It is further proposed to deal with this distinction under two separate notifications, and in connection therewith you desire to be furnished with the opinion of the Association on the following points.

Whether the effect of the publication of these notifications will be to make a clear distinction between public holidays under the Negotiable Instruments Act and those notified by executive order only, in so far that the Exchange Banks will remain closed on the “public holidays” only, and not on the other days.

6. The proposed notifications will, the Committee believe, be sufficient to make a clear distinction between public holidays under the Act and holidays to be given to Government employés by executive order.

7. The Committee are of opinion that the effect of the notifications will

Whether the effect of the publication of these notifications will wholly or partially meet the growing requirements of trade and commerce.

be to minimise, in some measure, the inconvenience heretofore experienced; it will, however, be possible only after some experience of the working of the new arrangement to state whether it has met the

requirements of trade and commerce to the full extent desired.

8. In regard to this point, the Committee believe that the time has come

Whether the effect of the publication of these notifications will be to, inflict serious hardship on a considerable section of the community by depriving them of holidays which they now enjoy.

when the Government may, without inflicting any real hardship upon any portion of the community, assume a firm attitude and grant to the commercial interests in Calcutta the relief so constantly sought in the direction of the curtailment of the long

official Doorga Pooja holidays. The question of interference with religious observances may be at once set aside; there is no wish on the part of the European community to interfere with these, but with reference to the social aspect of the question, it may properly be urged that the Hindus themselves, by opening for the most part their places of business even on the close Pooja days, support our arguments for the reduction of the holidays. The Committee believe that, for years to come, the present practice of allowing Hindu employes a long holiday to visit their homes will be continued, with this difference, however, that the holiday will be granted by the employer and not be forced upon him by a social custom backed up by Government orders.

9. In regard to the fourth and last question, I am desired to say that the

Whether the proposals now made are accepted by your Association as a reasonable present compromise between interests which admittedly conflict with one another.

Committee accept the proposals as a reasonable compromise between the several interests, and with the hope that in their actual working they may be found sufficient.

10. While action is being taken, the Committee are of opinion that it would be well to lay down as a principle, that when a Hindu holiday falls on Sunday, it shall not be necessary to declare as a public holiday the previous or the following day.

In submitting these remarks for the favourable consideration of His Honour the Lieutenant-Governor, I am directed to convey the thanks of the Committee to His Honour for affording them an opportunity of again expressing their views on this question.

No. 206B, dated Calcutta, the 20th March 1890.

From—A. E. STALEY, Esq., Offg. Secretary to the Board of Revenue, L.P.,

To—The Secretary to the Government of Bengal, Financial Department.

I AM directed to acknowledge the receipt of Government order No. $\frac{1-H}{1}$ 23,

HON'BLE F. B. PEACOCK.

1. To the Secretary to the Bengal Chamber of Commerce.

2. To the Secretary to the Bengal National Chamber of Commerce.

3. To the Secretary to the Calcutta Trades Association.

4. To the Secretary to the British Indian Association.

To the Secretary to the Indian Association.

dated 19th January last, forwarding a copy of a letter addressed to the Chambers and Associations noted in the margin, regarding public holidays in Bengal, and requiring the Board to obtain and submit with their own opinion the opinions of the Collector of Customs, of the Superintendent of Stamps, and of the Collector of Stamp Revenue, Calcutta, on the proposals therein contained.

2. In reply, I am to state that the officers above referred to were, as desired, consulted on the subject, and an abstract of their opinions is given below for the information of Government.

Collector of Customs, Calcutta.—The only change that the step contemplated would make in the present practice of the Custom House would be the addition of one day to the four days on which it is kept open entirely during the Doorga Pooja holidays.

Provided the other public holidays are left as in the draft notification, there is no reason, as far as the Custom House is concerned, to take exception to the change now proposed.

Superintendent of Stamps, Calcutta.—The Stamping Department of this office consists of one Christian and one Hindu clerk, two pressmen and two coolies. These last are all Mahomedans, and therefore are not affected in any

way so far as their religious observances are concerned by the Doorga Pooja holidays.

If it is eventually deemed expedient to curtail these holidays in the interests of the commerce of the port, there would not be any serious objection to urge so far as this office is concerned. Arrangements might be made by which part of the establishment would be present to do any urgent work, or notice might be given to banks and mercantile firms to get any cheques, &c., they wanted stamped done before the commencement of the holidays. All documents stamped here are printed forms, and it would only be necessary for these parties to lay in a sufficient stock of each kind to carry them over the holidays to allow of the Stamping Department getting the same holidays as other Government servants.

Collector of Stamp Revenue, Calcutta.—As to the supply of stamps by this office, it is to be observed that all firms and men of business, as a rule, provide themselves with a sufficient supply in advance of their ordinary requirements, and particularly against wants during close holidays. The public are also served in this direction by licensed stamp vendors, 70 to 80 of whom have shops in various parts of the town, which are kept open every day, and it is the interest of the vendors to do business even on close holidays.

The number of European, Christian and Mahomedan hands in the office of the Collector is not large enough to admit of the Hindu assistants being relieved during the Hindu holidays; and it is to be borne in mind that the proposal affects not only the officers attached to the Stamp Department, but also those employed in the Treasury and Account Departments, which must necessarily be kept open with the Stamp Department; so that practically almost the entire office will be deprived of a concession which has been long enjoyed and which is highly appreciated for several good reasons.

As regards the effect of the proposed notifications, the Collector feels no hesitation in stating that the proposal, if adopted, would cause serious hardship to a considerable section of the community, and he ventures to state that, so far as this office is concerned, the measure is not needed.

3. As to the Custom House and the office of the Superintendent of Stamps, there need be no difficulty in carrying out the change proposed by Government, nor do the Board think there need be in that of the Collector of Stamp Revenue. There are, it will be seen, means, outside that office, available to the general public to provide themselves during holidays with most, if not all, the stamps they require; and as regards the Doorga Pooja vacation, the Board think it would go far to prevent any inconvenience that might otherwise arise if, some time before the vacation arrived, the Collector were to put a notice in the newspapers asking mercantile firms and others requiring stamps to supply themselves therewith before and not during the holidays, in order that as many of the employés as possible might not be compelled to attend office during the vacation. If this were done, it would not be necessary to have more than one or two clerks present to meet any emergency that might arise. The Collector would no doubt be able to arrange that these clerks should not be Hindus. In this view, the Board see no objection to holidays being notified in Bengal under two separate notifications, as proposed in paragraph 29 of the letter which forms the enclosure of the Government order under reply.

No. 60, dated Calcutta, the 15th March 1890.

From—BABOO SURENDRONATH BANERJEE, Honorary Secretary to the Indian Association,

To—The Secretary to the Government of Bengal, Municipal Department.

I AM directed by the Committee of the Indian Association to acknowledge the receipt of your letter No. Mis. ^{1-H}₁22, dated the 19th January 1890, and to observe as follows.

2. The Committee must be permitted to express their regret that the Chamber of Commerce should now seek to reopen the question of the Doorga

Pooja holidays, which was definitely settled after careful consideration by a Committee consisting of such men as Mr. Dampier, Raja Durga Charan Laha, the late Hon'ble Kristo Dass Pal and others; and the views of the Committee received the support of no less an authority than Sir Steuart Bayley, who was then officiating as Lieutenant-Governor of Bengal. "The fact is," remarked Sir Steuart Bayley, "their (those of the mercantile community) interests and those of the Hindu community are on this point not reconcileable, and it is necessary for the Government to decide between the two; and the Lieutenant-Governor does not recommend, for the sake of what would be an inappreciable relief to Commerce, any alteration in the present national holidays of the Hindus." The Committee naturally enquire if anything has happened since then which should lead to the change which the Chamber has so often pressed for. Mr. Cotton states in his letter under reply:—

"The gravamen of the Chamber is, *firstly*, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, which will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature; and, *secondly*, that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearance during these days. It is pointed out that in the interval from 30th September to 10th October 1889, which were declared public holidays under the Act on account of the Doorga and Lakhi Poojas in 1889, the shipping arrivals in the Port of Calcutta showed a gross tonnage of 73,210 and a registered tonnage of 48,179; that the departures showed 63,962 gross and 45,538 registered tonnage; that 29 steamers and two ships arrived in port, and that 19 steamers and 13 ships left the port. The East Indian Railway brought into the market 25,084 tons of goods, and the Eastern Bengal State Railway 4,52,514 maunds, of which 3,63,875 were jute. The fact that all bills maturing in the interval fell due on Saturday, September 28th, is brought to notice as a most serious inconvenience and burden on the trade of the port. In the discussion that took place in 1879, much stress was laid by the native members of the Committee on the fact that the then existing facilities were sufficient. They urged that, though the banks were closed, exchange operations might be and were carried on, and that, as a matter of fact, the banks did take cheques from purchasers of bills during the vacation; and that remittances by telegram or otherwise were not necessarily suspended. The Chamber urge that this is not now the case, and that the banks have felt it unsafe to do any business at all on holidays gazetted under the Negotiable Instruments Act since that Act came into operation, and consequently that the inconvenience to commerce has become intensified."

3. Influenced by these considerations, the Government have suggested a modification of the existing arrangements in connection with these holidays. It is not indeed proposed to curtail the holidays, but they will be provided for in a way somewhat different from what has hitherto been the practice. Only five days, the days of actual religious celebration, will be included as holidays under the Negotiable Instruments Act, and the rest will be declared so by an order of the Government, which would have the effect of placing them on the same footing with the recently created Mahomedan holidays. The Committee must declare their inability to endorse these proposals, and they must enter their respectful but firm protest against any recommendation which would involve any alteration in the existing number of holidays, or the procedure which is now adopted in granting them. The feeling is general that this would be but the beginning of the end, and would mean the eventual curtailment of the holidays. An executive order may vary from year to year, and it involves an element of uncertainty, which would afford each year a further temptation to renewed agitation. Nor is this all. An executive order of the Government of Bengal will not apply to the offices under the Government of India, many of which at the time of the Doorga Poojas are located in Calcutta; whereas a declaration under the Negotiable Instruments Act would have the force of law, and would be binding upon all offices, whether of the local or of the Supreme Government.

4. The most important allegation made by the Chamber, on the strength of which mainly the proposed alteration in the holidays has been recommended, is that "public business to a large extent is paralysed during these holidays by the closing of the Exchange Banks." But the Committee learn that the Exchange Banks are opposed to the curtailment of the holidays and to the changes that have been proposed. If the Committee are correct in their information, then they have no hesitation in saying that the Government would not be justified in making any change in any way in connection with these holidays.

5. There is one other remark which the Committee would desire to make in this connection. In the notification which it is proposed to be issued for the closing of the Government offices, there are some offices named which at the present moment remain closed, but which would be deprived of their holidays if the Government carry out their present proposals; for instance, the office of the Registrar of Assurances now enjoys its annual Doorga Pooja holidays: under the proposed orders it will be deprived of them. The Committee earnestly hope that the Government will continue the present arrangements in connection with the Doorga Pooja holidays. These holidays have a deep hold upon the national mind, and any step which might be construed into an attempt to interfere with them would spread dissatisfaction and alarm throughout the community. The benefit that might be gained, the Committee are convinced, would be inconsiderable compared with the harm that would be done.

Dated Calcutta, the 27th March 1890.

From—BABOO SITANATH ROY, Honorary Secretary to the Bengal National Chamber of Commerce,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letters No. $\frac{M1-H}{1}$ 20, dated 16th December 1889, and No. $\frac{M1-H}{1}$ 21, dated 19th January 1890, with their accompaniments. The Committee of the Bengal National Chamber of Commerce have directed me to submit the following for the consideration of His Honour the Lieutenant-Governor.

The Chamber believes that the question raised in the letter of the Government of India, dated the 4th November 1889, of keeping the Currency Office open to some extent during the Doorga Pooja holidays, is one of a most important character, inasmuch as it affects a very numerous portion of Her Majesty's subjects. The question ought not, therefore, to be disposed of without very serious and full consideration in its various aspects.

2. Although the Government of India, in recognition of the views of the Government of Bengal, expressed in Mr. Macaulay's letter (referred to in the above communications), attaches due importance to the necessity of maintaining the liberal principle on which the policy of the Government is based, yet having in view the question of the "inconvenience and loss upon the mercantile community by the entire closure of the Currency Office for 12 consecutive days," offers a solution of this difficulty by proposing to adopt the suggestion of the Head Commissioner of Paper Currency, which it believes "does not necessarily involve a departure" from that principle.

3. The Chamber as composed of merchants and mainly of Hindu members, before expressing its opinion on the particular suggestion, begs to put on record a full exposition of the facts relating to the religious and other aspects of the question, which may help the Government to come to a right conclusion on the subject.

4. The Doorga Pooja is regarded as their greatest festival by the Hindus, specially in Bengal. Its initial ceremony, called *bodhan*, which is regulated according to the practice observed in different families, takes place on different dates previous to the commencement of the image worship days, the longest period from the *bodhan*, including the four days of the Pooja, being 17 days, during which the rituals and Bodhan worship are continuous, as also the various entertainments connected therewith. In former times, therefore, Government in consideration of the above facts and the time required for preliminary

preparation, granted very long holidays, but in later times, in view of the dates on which the Bodhan ceremony was being generally observed and of the improved facilities for travel, the duration of the holidays was reduced to the lowest possible limit, viz. 12 days, inclusive of the Lukshmi Pooja holidays. It may be useful to add that many Hindus specially devote themselves to a very strict religious ritual, called the *Navaratri*, or nine days' fast.

5. During these holidays relatives and friends from different parts of the country meet in the houses of such amongst them as celebrate the Poojas there, or for social reunions at home. Some busy themselves in arranging their private business and domestic affairs, for which they find no leisure during the rest of the year, others enjoy a much-coveted rest or seek to recoup their health in various ways. Thus then, it will be seen that in its religious, social, and humane aspects, the duration of the Doorga Pooja holidays is none too long. It is not also true that the religious holidays are only four. My Committee are not unmindful of the interests of foreign commerce, but they feel that in fixing the number of the Doorga Pooja holidays at twelve, the reduction of those holidays has reached the lowest possible limit.

6. These holidays commence only a day before the latest day for the worship of Bodhan, i.e., the Shastiday, which is indispensably necessary for the preparation of the inaugural ceremony of worshipping the deity; and from that day to the immersion of the image into the river is one consecutive series of devotional days, and the period intervening between the immersion day and the Lukshmi Pooja days is devoted to social and family reunions, which form a part of the religious ceremonies of the Hindus in Bengal.

7. All respectable mercantile firms generally make payments by cheques, which again mostly pass into different accounts in the bank-books, and when cashed at the banks may be converted into coin or notes of all denominations. Whatever small business, therefore, of the mercantile community may be impeded by the Currency Office being closed could be arranged for beforehand, and, as hitherto, without any serious difficulty.

8. Under the above circumstances the Government of Bengal, in Mr. Macaulay's letter above referred to, rightly concurred in the views of the British Indian Association that there was no very great necessity for opening the Currency Office during the holidays, and that a partial opening of it during a portion of the period would be an infringement of the wise policy of the Government.

9. The desirability of a reconsideration of the India Government orders of 1882, based upon the views of the Bengal Government reaffirmed by His Excellency's late decision, rests upon a somewhat exaggerated idea of the inconvenience caused to a portion of the mercantile community.

10. Sir Steuart Bayley, though he allowed that some loss would be caused to the mercantile community by the observance of these holidays in public offices, pointed out that such inconvenience should be subordinated to a much respected popular national custom. As for the public inconvenience, the Chamber is of opinion that the majority of the general public, consisting largely of Hindu merchants themselves, willingly forego work to merge themselves for awhile into the happy domestic life in the country, and thus little or no inconvenience is actually felt by the general public by the entire closure of the Currency Office.

11. My Committee find it difficult to understand why the question of the duration of these holidays should be re-opened once more. It was understood that the Negotiable Instruments Act had settled it once for all, and my Committee respectfully submit that the mere opinion of the Head Commissioner of Paper Currency should not be allowed to have greater weight with the Government than the maturely formed decisions on the subject by successive Viceroys and Governors-General in Council.

12. The Head Commissioner proposes to employ a few non-Hindu clerks in the Exchange Department of the Currency Office; this may be either as additional hands or in place of the Hindu clerks. The Chamber begs to point out that such an arrangement would be introducing a religious test in the public service, which would be contrary to the spirit of the administration and the declared policy of absolute religious tolerance among its subjects by the British

Government. The consideration how far the scheme would harmonise with the arrangements of the Treasury the Chamber cannot undertake to decide now; but with the general knowledge which it has of such arrangements, with the light thrown by the India Government letter itself, it cannot but express an opinion unfavourable to the scheme and to its practicability.

13. The Currency Treasurer, from the very nature of the business that is transacted in the Currency Office, is obliged, to a very great extent, to place implicit confidence in his subordinates. To compel him therefore to accept the services of people not known to him, much less of those in whom he may have no confidence, the Chamber is of opinion, is an unmerited and uncalled for hardship which, with the small amount of deposit which he may reasonably expect from such of his subordinates, may not be mitigated. Besides, in the opinion of the Chamber, the scheme seems to be an infringement of a broad principle.

14. There is yet another objection to keep the Currency Office open even partially during the said holidays. Such opening on the same ground (that is, inconvenience to commerce) must to a certain extent lead to some other offices being kept open, and others would soon follow suit. Thus it is feared that this change is but the thin end of the wedge, which in time must bring about the total abolition of the Doorga Pooja holidays in all public offices, and what is now enjoyed by all the clerks as a right will, if the modification is adopted, be left to the option of the office masters. The question rightly viewed is not one of conflicting interests of the mercantile community and the general public on the one hand and the Hindu clerk on the other, but one of some avoidable inconvenience and perhaps petty loss to a portion of a particular class of merchants, as against the grave religious, social and economic interests of the whole Hindu community, and also as against the declared policy of the Government, and, to a certain extent, against the efficiency of the Government service itself.

15. The Committee beg further to observe they take particular note of the fact that trade is very brisk during the Pooja holidays, the demand for a number of articles being larger during the twelve days than throughout the rest of the year. This may be explained by reason of the large influx of people from all parts of the country bent upon making the most of the holidays. The curtailment of the holidays must necessarily involve a serious pecuniary loss to the trade.

16. With reference to the question raised in your 2nd letter, whether it might not be possible to effect a compromise between interests which admittedly conflict with one another "by restricting the number of the Pooja holidays gazetted under the N. I. Act to five days only, but retaining by executive authority the existing number of holidays for all public offices in Bengal, save the few in Calcutta which are indispensable to the foreign commerce of the port," the Chamber most respectfully beg to observe that such a procedure once sanctioned will ultimately lead to the total abolition of the Doorga Pooja holidays in all offices, especially in Calcutta. For, in the words of Mr. Dampier, the opening of certain offices in Calcutta would govern the practice of all other offices, if not in Bengal, at least at the Presidency, and as such, only those five days gazetted under the N. I. Act would be treated as close holidays, while the other seven days which might be notified as Doorga Pooja holidays under the executive order of the Government would never be observed as such.

17. The Committee of the Chamber apprehend that in time it might be deemed necessary, in the interest of trade, to keep other offices, besides those named in your letter, open, or such a result, they believe, would follow of itself as a necessary consequence, while all the mercantile offices would at once regulate their practice according to that observed in the Government offices.

18. The proposed change would thus necessitate the attendance of all the subordinate officers (Hindus and non-Hindus) even during the days gazetted as holidays under the executive order of the Government. And as Hindus form the bulk, from 90 to 95 per cent. of the total employés or subordinate officers in the several offices in Calcutta, no office can be kept going and in working order, and absolutely no business could be done, unless Hindu employés were made to attend. It will be thus seen that by necessitating the compulsory attendance of all such Hindu employés, the ultimate result would be the extinction of the Pooja holidays, all but the few days which may be gazetted as such

under the N. I. Act, and even of those few days there is absolutely no guarantee that they will not be required to be sacrificed to the exigencies of the growing trade of this port.

19. Under the circumstances, any curtailment of the allotted number of Pooja holidays now granted under the N. I. Act would not only be a source of serious dissatisfaction to the Hindus in general, whether in Calcutta or in the mofussil, but inflict great hardships upon a very large number of Hindu employés and their families and relatives; while the solution proposed by His Honour the Lieutenant-Governor, though it may satisfy the requirements of the trade of this port, would be regarded as a new departure from the principle of religious neutrality hitherto observed by Government in its relation with the subject races, and as such would give rise to serious heart-burning.

20. There can be no analogy between Hindu and Mahomedan employés, for the Mahomedans form a very infinitesimally small portion of the subordinate officers in the several offices in Calcutta, and thus no harm is done by the Mahomedan religious days being notified as holidays under the executive order of the Government, for the offices during such holidays can very well be kept open without necessitating the attendance of Mahomedan employés.

21. Under the circumstances the Chamber is of opinion that the course proposed by the Bengal Government, by way of solution of conflicting interests, cannot be regarded at all as satisfactory from the Hindu point of view, being all advantageous to the other side. It is true that some inconvenience, and it may be loss, is caused to foreign commerce by the absolute closure of the several Presidency offices for 12 days together, but the same complaint may justly be made not only by the mofussil merchants and traders, but by zemindars alike, on account of the absolute closure of the mofussil Civil Courts and of the Small Cause Court here for a month; but for all that, in a country where the majority of the population are Hindus, and where the Pooja festival has such a strong hold upon them, no one can venture to suggest that the number of Pooja holidays should be curtailed in the mofussil Civil Courts as well.

Dated Calcutta, the 7th April 1890.

From—RAJ KUMAR SARVADHIKARI, Secretary, British Indian Association,

To—The Offg. Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to acknowledge the receipt of your letters noted in the margin* on the question respectively of keeping the

* No. Mis. $\frac{1H}{1}$ 21, dated 18th December 1889.

No. Mis. $\frac{1H}{1}$ 21, dated 19th January 1890.

Currency Office open to some extent during the Doorga Pooja holidays, and of the number of public holidays to be observed in the Bengal Province under the Negotiable Instruments Act. In reply I am directed by the Committee of the British Indian Association to submit, for the consideration of His Honour the Lieutenant-Governor, the following observations.

2. It seems unnecessary to the Committee to refer to the history of the question previous to the year 1882. In March of that year the Chamber of Commerce submitted certain representations, to be noticed hereafter, respecting the curtailment of the Doorga Pooja holidays. The Government of Bengal on the 27th July 1882 made the following pertinent remark: "The inconvenience and loss which the mercantile community suffer from the existing state of things, great and serious as they are, cannot be remedied without inflicting a still more serious hardship on a far more numerous, though less influential, portion of the community." The Government of India in September 1882 felt "bound to attach its proper weight to the strong attachment which the Hindu community of Calcutta manifest to these holidays, and to the serious hardship which any curtailment of them would inflict on a large class." The Governor-General in Council accordingly "regretted that the consideration put forward by the Bengal Chamber of Commerce did not appear to him sufficient to justify any modification of the orders passed in January 1880, or the re-opening of a question which had been decided after careful consideration in all its aspects."

3. The principle so deliberately laid down in 1882 has since been reaffirmed in the letter of the Government of India, dated 4th November 1889,

received with your letter of the 16th December last. In suggesting the possibility of making certain arrangements for the conduct of a specified class of business in the Currency Office during a portion of the holidays, the Government of India remark, paragraph 6, that such arrangements do not "necessarily involve a departure from the *principle on which the policy of Government is based.*"

4. The Committee of the Association observe that the Negotiable Instruments Act was passed in 1881. In their representation made to the Government of India in March 1882 the Chamber of Commerce dwelt on the fact "that great and general inconvenience and serious loss are caused by the total closing of the Currency and other Government offices for the whole period of 12 days, and on the possibility of making arrangements by which the employes of Government offices could take leave in relays without stopping the work of the offices. The unqualified decision of the Government on this representation has been already adverted to. It is now only necessary to refer to two circumstances which require particular notice, viz. (1) that the representation was made and the orders of Government were passed some time after the Negotiable Instruments Act had been in operation, and (2) that all that the Chamber asked for was the possibility of making some arrangements for the conduct of business in particular Government offices as against the "*total closing*" thereof.

5. The gravamen of the Chamber's present contention is, 1st, that public business is to a large extent paralysed during these holidays by the closing of the Exchange Banks, and 2nd that the trade of the port is materially affected by the closure of the Shipping Office and the inability to obtain port clearances.

6. Hitherto the objections raised were based on the inconvenience caused to trade by the continuous closing for 12 days of certain Government offices only. The objection that Exchange Banks will not undertake the responsibility of transacting business during days upon which negotiable instruments will not mature is now raised for the first time, *i.e.*, eight years since the Act has been in operation; at all events the inconvenience could not have been keenly felt. Whatever inconvenience was heretofore entailed upon the mercantile community by the general observance of the Doorga Pooja holidays has been removed to a great extent by the Bank of Bengal and Custom House being kept open during certain days of the period. The interests of Exchange Banks depend altogether on those of commerce; in fact both act upon each other; and if in the interests of trade it is essentially necessary that they should be kept open, at least on the days on which the Bank of Bengal transacts business, it is only natural to suppose that they will be kept open. Perhaps the inconvenience caused by their remaining closed is not great, or is minimised by the Bank of Bengal being kept open. If the Bank of Bengal can transact business, notwithstanding the holidays, in all its departments—Exchange as well as others—it does not appear why other Banks, having large transactions, should find it unsafe to do any business at all on certain days among the holidays gazetted under the Act. In this they will be particularly helped if arrangements can be made in the way suggested by the Government of India for the transaction of business in the Government Currency Office.

7. The second objection now raised by the Chamber is as respects the closing of the Shipping Office during the holidays. The objection is of the nature of that raised against the total closing of the Currency Office. Both will be noticed further on.

8. The general question now under discussion under the orders of His Honour the Lieutenant-Governor is whether it would not serve all interests to notify only four of the Doorga Pooja holidays under the Negotiable Instruments Act, and to notify the rest as holidays except in certain offices in Calcutta, which will be kept open for all these days to meet the exigencies of commerce. If the words of Mr. Dampier, quoted in your letter, do not fully apply, "if the opening of these offices would not necessarily govern the practice of all or nearly all the other offices in Bengal," it would, my Committee fear, govern the practice of all or nearly all the offices in the Presidency, imperial as well as provincial. The Mahomedan holidays notified by executive order are, so far as the Committee are aware, scarcely observed in the offices in Calcutta, and the opening of these on the Mahomedan holidays scarcely causes any inconvenience, for the number of Mahomedan employes is very insignificant, and such employes

can always obtain leave without detriment to the work of the offices concerned. Hindu employes naturally form the majority—a very large majority—in the Presidency offices, and the result of the notifications proposed to be issued will be, the Committee anticipate, the compulsory attendance of Hindu employes not only in the excepted offices, but in all or nearly all other offices in Calcutta eight days out of the twelve. This means that the interests of commerce should be entirely subserved, while a large though less influential portion of the Hindu community of Calcutta, admitted to be strongly attached to this national holiday, will be subjected to serious hardship. Such a result, the Committee are distinctly of opinion, would be subversive of the principle on which the policy of Government is based. That principle, the Committee repeat, is the prevention of hardship to the Hindu community of Calcutta even at the risk of some inconvenience and loss to the mercantile community. The Government of Bengal on the 27th July 1882 observed:—"It is true that it was proposed last year to require only a very small section of the establishment to attend for a part of two days; but it is justly urged that the principle on which the policy of Government is based would none the less be unnecessarily infringed." The proposed notifications would not the less, the Committee venture to hold, cause an infringement of the principle deliberately accepted by Government, and the Committee earnestly trust that His Honour the Lieutenant-Governor will be as careful to maintain it as the Government of 1882 was.

9. That in the abstract all questions of leave between employer and employes are purely private, and the Government, which has no State religion of its own, can claim no right on principle to legislate about holidays. As a matter of fact leave on holidays is granted as a matter of favour, and this favour is regulated by consideration of a wider kind than what is indicated by the abstract right. It is well known and admitted that if all holidays be stopped work would not be necessarily stopped, but that certain sections of the community would be grievously hurt, and it is to avoid this injury to the feelings of the community that leave is allowed on broad statesmanlike principles, and not with an eye to the smallest leave possible in the case of certain departments, as in the Navy, where leave for the observance of the Sabbath is not granted. But in questions concerning general leave, such facts are never taken into account. Similarly, in considering the question of Banking and Shipping Offices, we should not think proper to alter or affect the general law. Special conveniences may be secured for particular sections of the community, and that most readily by departmental orders, and not by changing the law. It is undeniable that a general denial of leave on particular holidays would be more desirable to some persons than departmental orders, but in a mixed community our merchants should be satisfied with the principle of mutual toleration, and not insist upon their dues at the sacrifice of those who do not belong to their profession. With the Currency Office in a position to encash Council Drafts during some of the holidays, the Exchange Banks will, it is supposed, find it safe to work; and with the Shipping Office similarly open at stated intervals along with the Custom House, there could be no impediment to port entries and port clearances being effected. Inconveniences now felt are likely to be removed to a great extent if these measures are adopted while holidays are kept intact; and to this extent the Committee of the Association give their assent.

Dated Calcutta, the 4th November 1889.

From—PUNDIT MOHESH CHUNDER NYARATNA,

To—The Secretary, Bengal Chamber of Commerce.

IN reply to your letter of the 30th ultimo, No. 884-89, I enclose herewith, in a tabular form, a list of Hindu holidays for the year 1890. I may add that in drawing up the list I have consulted the learned Professors of the Sanskrit College. The Hindu holidays are mostly festivals connected with religion in which worship or ceremonies with a religious sanction are indissolubly associated with festivities. It sometimes happens that a day of worship, with or without festivity, is followed by a day of festivity with no worship, but with only certain observances with a religious sanction. A few of the holidays are

days of fasting followed by no fasting. In my list I have included no day in which there is no worship, with or without festivity, or ceremony with religious sanction, with or without festivity.

A list of Hindu holidays for the year 1890.

HOLIDAYS.	Months and dates.	Days of the week.	REMARKS.
Saraswati Puja ...	25th and 26th January ...	Saturday and Sunday	This is a festival observed by all Hindus, except those belonging to the lowest castes.
Siva Ratri ...	17th and 18th February ...	Monday and Tuesday	The first day is a day of fast. The fast is kept by only a few.
Dol Jatra or Holi ...	5th and 6th March ...	.....	There are two days of worship on this occasion. This is a very popular festival with Hindustanees, but not so with Bengalees.
Basanti Puja ...	26th to 30th March ...	.....	} These are festivals observed by only a few people. This is a moderately popular festival.
Annapurna Puja ...	28th March ...	.....
Ram Navami ...	29th " ...	.....
Chaitra Sankranti ...	12th April ...	Saturday ...	This is a holiday observed by all orthodox Hindus of good caste.
Dasahara ...	29th May ...	Thursday ...	This is a bathing festival and is universally observed. The time of the day for bathing is every year not the same. It may be any hour of the day.
Suan Jatra ...	3rd June ...	Thursday ...	This is not a general festival.
Rutha Jatra ...	19th " ...	Thursday ...	Not an important festival.
Punor Jatra ...	27th " ...	Friday ...	Ditto ditto.
Janmashtami ...	7th and 8th August ...	Thursday and Friday...	An important holiday.
Mahalaya ...	13th October ...	Monday ...	A day for offerings to the names of ancestors, observed by all orthodox Hindus of good caste.
Durga Puja ...	19th to 23rd October ...	Sunday to Thursday...	A most important festival.
Lakshmi Puja ...	27th and 28th October ...	Monday and Tuesday	A moderately popular festival.
Kali Puja ...	11th and 12th November...	Tuesday and Wednesday.	An important festival.
Bhratri Dwitya ...	14th November ...	Friday ...	At this festival sisters entertain brothers. A general and most important festival, though the worship connected therewith has now for the most part been dispensed with. Ceremonies with a religious sanction are, however, observed.
Kartick Puja ...	14th and 15th November...	Friday and Saturday ..	A moderately popular festival.
Jagat Dhatri Puja ...	20th and 21st ditto ...	Thursday and Friday	An important festival.
Rassa ...	25th and 26th ditto ...	Tuesday and Wednesday.	A festival observed by a few. 25th according to Saktas and 26th according to Vaishnavas.

MOHESH CHUNDER NYARATNA.

Dated Calcutta, the 14th November 1889.

Demi-official from—PUNDIT MOHESH CHUNDER NYARATNA,
To—The Secretary to the Bengal Chamber of Commerce.

In reply to your letter of the 12th instant, No. 914—89, I beg to say that the Doorga Pooja in 1890 will really commence on the 19th October. On this day the worship is to consist of *Bodhana* and *Amantrana*, i.e., of rites for awakening the *Devi* from her sleep, the season being one for sleep to the gods and goddesses according to Hindu belief, and for invitation to her. This ceremony takes place at dusk, and is performed by the priest, and, in the case of Brahmans, sometimes by the head of the family assisted by the priest. The

regular pooja with festivities commences on the morning of the 20th October, and continues to the 22nd. On the 23rd there is to be *Bisarjana* ceremony, *i.e.*, the parting ceremony with the *Devi*. This ceremony, like that of awakening and inviting, is performed by the priest in the morning. There is, however, the ceremony of throwing the idol into rivers or tanks in the afternoon, with attendant processions, and the exchange of greetings among relatives and friends in the evening. The strictly worship days for others besides priests in 1890 will thus be the 20th, the 21st, and 22nd October. The strictly worship day for the Lukhi Pooja will be the 27th October.

In conclusion, I think it proper to observe that among the people the festivities, &c., attendant on poojas are matters of greater interest than the poojas (strictly religious worship) themselves. From this point of view, I consider the day immediately following the three days of regular pooja on the Doerga Pooja occasion a necessary part of the period of the pooja. From the same point of view, I consider that the day following the day of worship on the occasion of Kali Pooja, instead of the pooja day itself, should be holiday when only a day's holiday is given on this occasion. The pooja takes place at night, and the attendant festivities and processions take place for the most part the following day.

The enclosure of your letter is returned herewith.

AGRICULTURAL CONGRESS TO BE HELD AT VIENNA IN OCTOBER NEXT.

The 9th July, 1890.—The following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

Circular No. 5—5-9M&Ex., dated Simla, the 2nd July 1890.

From—J. W. P. MUIR-MACKENZIE, Esq., C.S., Under-Secy. to the Govt. of India,
Revenue and Agricultural Department,

To—The Secretary to the Government of Bengal.

IN continuation of circular No. 3—5-7 dated the 15th May last, I am directed to forward, for the information of His Honour the Lieutenant-Governor, copy of a further letter received from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, on the subject of the Agricultural Congress to be held at Vienna in October next.

No. 561, dated Bombay, the 9th June 1890.

From—F. STOCKINGER, Esq., Imperial and Royal Austro-Hungarian Consul General,
To—The Secretary to the Government of India, Foreign Department.

REFERRING to my letter, dated the 31st March, No. 311, I have the honour to inform you that, according to a letter recently received from the Imperial Royal Agricultural Society in Vienna, the languages of the debates at the Agricultural Congress to be held in October next will be the German, English and French, not German and French only, as previously stated.

Only papers that may be presented to the Congress have to be written in German or French.

His Excellency the Austrian Minister for Agriculture very much hopes that he will be able to welcome members, official or non-official, from a country of such vast importance in agriculture as India.

I may also mention that the Austro-Hungarian Lloyd's Steam Navigation Company has granted a reduction of 50 per cent. on their ordinary fares for delegates to the Vienna Congress, and similar reductions have been made by the principal railway lines in Austria and Hungary.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

ROAD CESS.

No. 2422R.C.

Dated Calcutta, the 11th July 1890.

READ—

Letter from the Accountant-General, Bengal, No. 135L.F., dated 2nd July 1890, submitting an abstract of receipts and expenditure of the several District Road Committees in Bengal for the quarter ending 31st March 1890.

RESOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees in Bengal for the 4th quarter of the year 1889-90 be published in the *Calcutta Gazette* and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the *Calcutta Gazette*.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong, and Chota Nagpore Divisions, to the Superintending Engineers of the Eastern and Western Circles, and to the Financial Department of this Government for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secretary to the Govt. of Bengal.

DISTRICT

Statement of Receipts and Expenditure of the several District Road

RECE

DISTRICTS.	Balance in treasury on 1st January 1890.	PROVINCIAL RATES.				Interest on arrears of road cess.	PUBLIC WORKS.			IRRI- GATION.	MISCER.	
		Cess on lands.	Cess on mines.	One per cent. road cess.	Total.		Road tolls.	Ferry tolls.	Total.		Canal tolls.	Rent of serais and staging- bungalows.	Fees, fines and forfeitures.
CESS DISTRICTS.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.
	Darjeeling	2,208 1 0	10,862 3 10	504 9 5	.....	11,366 13 3	1 8 3	.....	.....	.....	.....	.....
	Hazaribagh	17,152 11 0	25,241 7 8	1,574 10 6	.....	26,816 2 2	20 15 8	.....	.....	.....	69 8 0	1,664 2 0
	Lohardugga	15,247 7 11	20,840 3 4	.....	.....	20,840 3 4	25 7 11	.....	.....	.....	98 8 0	2,156 7 0
	Manbhoom	10,985 4 2	21,372 9 6	708 11 5	.....	22,381 4 11	46 15 5	.....	.....	.....	617 13 6	2 0 0
Total	45,603 8 1	78,516 8 4	2,787 15 4	.....	81,304 7 8	94 15 3	.....	.....	.....	.....	778 13 6	3,822 9 0
NON-CESS DISTRICTS.	Chittagong Hill Tracts	2,653 0 4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Sonthal Pergunnahs	28,552 3 8	.....	.....	.....	.....	.....	.....	.....	.....	125 12 0	.....
	Singbhoom	11,109 3 6	1,224 9 6	19 4 9	.....	1,243 14 3	.....	.....	.....	.....	3 0 0	.....
	Total	40,314 7 6	1,224 9 6	19 4 9	.....	1,243 14 3	.....	.....	.....	.....	128 12 0	.....
	GRAND TOTAL	85,907 15 7	79,741 1 10	2,807 4 1	82,548 5 11	94 15 3	907 9 6	3,822 9 0

EXPEN

DISTRICTS.	REFUNDS.			PROVINCIAL RATES.	ADMINISTRATION.			STATIONERY.	PUBLIC WORKS.					
	Cess.	Other receipts.	Total.		Establishment and contingencies of office of collection.	Establishment and contingencies of Committee's office.	Percentage cost of establishment for offices of account and control.		Stationery and printing.	Original works.	Repairs.	Establishment.	Tools and plant.	Toll and ferry establishment and contingencies.
	Rs.	Rs.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.
Cess Districts.														
Darjeeling	.....	.....	.....	299 7 0	365 12 0	.....	365 12 0	40 15 0	4,841 4 6	4,209 1 6	930 6 0	2 14 0	.....	.....
Hazaribagh	.....	.....	.....	1,934 5 6	390 8 0	.....	300 8 0	69 7 9	3,560 0 0	13,353 11 2	1,929 4 0	4 0 0	.....	.....
Lohardugga	.....	.....	.....	2,461 1 2	97 4 0	.....	97 4 0	71 0 11	1,315 0 0	20,040 8 6	2,413 12 0	674 3 3	.....	.....
Manbhoom	.....	.....	.....	458 12 6	886 13 0	.....	386 13 0	28 3 9	2,030 10 9	7,966 7 1	1,716 8 0	168 12 7	.....	.....
Total	.....	.....	.....	5,153 10 2	1,150 5 0	.....	1,150 5 0	218 11 5	11,746 15 9	45,569 12 3	6,989 14 0	849 13 10	.....	.....
Non-Cess Districts.														
Chittagong Hill Tracts	.....	.....	.....	.....	64 0 0	.....	64 0 0	27 13 9	565 14 9	4,718 1 0	1,560 2 2	106 3 9	.....	.....
Sonthal Pergunnahs	.....	.....	.....	.....	250 0 0	.....	250 0 0	.....	1,428 7 9	7,313 1 3	2,125 0 0	45 1 0	.....	.....
Singbhoom	.....	.....	.....	.....	118 12 9	.....	118 12 9	0 6 3	1,166 12 1	6,639 2 3	654 11 5	16 8 9	.....	.....
Total	.....	.....	.....	.....	432 12 9	.....	432 12 9	28 4 0	8,161 2 7	17,070 4 6	4,339 13 7	167 13 6	.....	.....
GRAND TOTAL	.....	.....	.....	5,153 10 2	1,583 1 9	.....	1,583 1 9	246 15 5	14,908 2 4	62,640 0 9	11,329 11 7	1,017 11 4	.....	.....

FORT WILLIAM,

The 16th June 1890.

AD FUND.

mittees for the Fourth Quarter of the year 1889-90, ending 31st March 1890.

ous.		Grant from Govern- ment.	SUSPENSE ACCOUNT.			Total receipts.	Balance of imprest in the hands of Engi- neers and others, decreased.	Balance of uncashed cheques, increased.	Total receipts, including balance.	Outlay.	Balance in treasury on 31st March 1890.
cellano- ous.	Total.		Advances.	Deposits.	Total.						
R. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
.....	.....	500 0 0	5,282 13 10	.....	5,282 13 10	17,151 3 4	250 0 0	199 1 2	19,808 5 6	15,192 14 6	6,615 7 0
.....	1,730 10 0	3,781 11 2	2,520 13 1	.....	2,520 13 1	34,872 4 1	.....	6,173 10 10	58,198 9 11	22,882 10 1	35,315 15 10
.....	2,254 15 0	3,640 0 0	1,172 8 10	496 0 0	1,668 8 10	28,419 3 1	.....	4,099 15 1	45,306 10 1	28,547 10 5	19,818 16 10
30 0 0	2,519 13 6	750 0 0	668 2 11	.....	568 2 11	26,468 4 9	.....	.....	37,451 8 11	18,919 6 11	25,432 2 0
30 0 0	6,801 6 6	8,661 11 2	8,550 6 8	496 0 0	10,046 6 8	1,06,908 15 3	250 0 0	11,072 11 1	1,63,925 2 5	78,642 9 9	85,182 8 8
.....
.....	.....	5,577 0 0	95 7 7	.....	95 7 7	5,672 7 7	238 6 0	3,518 10 9	12,382 8 8	7,042 3 5	5,340 5 3
35 12 9	161 8 9	.....	3,008 15 3	.....	3,008 15 3	3,170 8 0	169 3 6	1,873 2 6	31,766 1 8	14,481 1 0	17,275 0 8
30 0 9	235 0 9	.....	508 0 0	775 0 0	1,283 0 0	2,769 15 0	.....	.....	13,869 2 6	7,699 1 3	6,270 1 3
35 13 6	894 9 6	5,577 0 0	5,612 6 10	775 0 0	4,387 6 10	11,602 14 7	398 9 6	5,691 13 3	58,007 12 10	29,122 5 8	28,885 7 2
45 13 6	7,196 0 0	14,238 11 2	13,163 13 6	1,271 0 0	14,433 13 6	1,18,511 13 10	648 9 6	10,764 8 4	2,21,332 15 3	1,07,764 15 5	1,14,007 16 10

TURE.

Rs.	IRRIGATION.		MISCELLANEOUS.					Contribution to Provincial Government.	EXPENSE ACCOUNT.			Total expenditure.	Balance of imprest in hands of Engineers and others, increased.	Balance of uncashed cheques, decreased.	Total outlay.
	Total.	Canal toll establishment and contingencies.	Staging-bungalow establishment and contingencies.	Staging-bungalow, petty construction and repairs.	Miscellaneous.	Total.	Advance.		Deposit.	Total.					
Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.	
9,985 10 0	44 0 0	44 13 11	.....	88 13 11	.....	2,404 2 6	.....	2,404 2 6	13,192 14 6	.....	.....	13,192 14 6	
18,846 15 2	61 8 0	727 3 11	56 12 0	845 7 11	.....	1,605 7 9	37 0 0	1,642 7 9	22,882 10 1	.....	.....	22,882 10 1	
24,443 8 3	644 3 8	.....	444 3 8	.....	579 4 0	.....	579 4 0	28,497 10 3	60 0 0	.....	28,547 10 3		
11,882 6 6	605 0 0	200 0 0	805 0 0	14,005 7 4	13 15 7	.....	14,019 6 11		
65,156 7 10	105 8 0	1,216 5 6	56 12 0	1,378 9 6	.....	5,283 14 3	237 0 0	5,520 14 3	78,578 10 2	63 15 7	.....	78,642 9 9	
6,950 5 8	76 1 0	87 6 0	.....	143 7 0	.....	3,176 0 0	.....	3,176 0 0	14,481 1 0	.....	.....	14,481 1 0	
10,911 10 0	75 0 0	105 3 3	1 8 6	152 11 9	.....	250 0 0	170 0 0	420 0 0	7,590 1 3	.....	.....	7,590 1 3	
6,877 2 6		
24,730 2 2	151 1 9	173 9 3	1 8 6	326 2 9	.....	3,426 0 0	170 0 0	3,596 0 0	29,122 5 8	.....	.....	29,122 5 8	
89,595 10 0	256 9 0	1,389 14 9	58 4 6	1,704 12 3	.....	8,709 14 3	407 0 0	9,116 14 3	1,07,700 15 10	63 15 7	.....	1,07,764 15 5	

E. T. ATKINSON,

Accountant-General, Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 12th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan July 12, '90	6.14	Weather—rainy. Transplantation of paddy going on. Prospects of sugarcane good. Prices of common rice:—
	Culna ...	2.24	
	Ranigunge ...	4.77	
			Srs. } per rupee.
			Burdwan ... 17
			Culna ... 13
			Ranigunge ... 16
	2 Bankoora „ 12, '90	3.75	Weather—rainy with sunshine at close of week. Transplanting of <i>amun</i> rice going on. Standing crops thriving. It is reported that the late high flood in the Damooda has caused some damage to sugarcane in the northern part of thana Sonamookhi. Common rice sells at 18 seers per rupee at Sudder and 17½ seers at Bishenpore.
	3 Birbhum „ 12, '90	9.01	Unusually heavy rain throughout the southern area of the district. Elsewhere good rain. Cultivation going on actively. Transplanting has begun. Prospects very good so far. Price of common rice still 16 to 20 seers per rupee.
	Rampore Haut ...	3.63	
	4 Midnapur „ 12, '90	1.42	Rain fell on most days. Paddy cultivation progressing well. Dry weather now would be good for indigo. Prices of common rice:—
			Srs. Ch. } per rupee.
			Sudder ... 15 0
			Contai ... 19 0
			Tumlook ... 14 8
			Ghatal ... 15 3½
	5 Hooghly „ 12, '90	1.40	Weather—fair with light showers. All crops doing well. Prices of common rice:—
	Serampore ...	1.49	
	Jehanabad ...	1.95	
			Srs. } per rupee.
			Sudder ... 13½
			Serampore ... 16
			Jehanabad ... 16
	Howrah „ 12, '90	4.68	Weather—showery. Paddy crops and sugarcane doing well. Transplanting of <i>amun</i> going on. Some damage to jute crop reported from the Uluberia subdivision. Price of coarse rice 14 to 15 seers per rupee.
	Uluberia ...	1.73	
<i>Central Districts.</i>			
PRESIDENCY DIV.	6 24-Pergas. July 12, '90	6.35	Weather—seasonable. Transplantation of <i>amun</i> going on. Prospects fair. Price of rice stationary.
	7 Nuddea „ 12, '90	1.96	Weather—seasonable. Prospects of crops on the ground promising. Flood water has receded a little in the Kushtea subdivision.
	Kushtea ...	3.91	
	Meherpore ...	2.43	
	Chuadanga ...	4.60	
	Ranaghat ...	2.45	
	8 Khoolna „ 12, '90	3.93	Weather—rainy. Prospects of all crops continue good. Some slight injury appears to have been caused in the Sudder on account of excessive rainfall.
	Bagirhat ...	2.60	
	Satkhira ...	1.22	
	9 Jessore „ 12, '90	2.84	Weather—cloudy and rainy. State and prospects of standing crops generally good, but some damage to paddy crops sown late on the low lands is apprehended in the Jhenidah and Narail subdivisions.
	Jhenidah ...	6.02	
	Magura ...	2.91	
	Narail ...	1.48	
	Bongong ...	1.5	
	10 Moorsheadabad „ 12, '90	2.88	Weather—seasonable. <i>Aus</i> and <i>amun</i> doing well. <i>Aus</i> is being weeded and <i>amun</i> transplanted.
	11 Dinagepur „ 12, '90	4.91	Weather—fairly cool with heavy showers nearly every day. Transplantation of <i>haimanti</i> paddy going on. Outturn of <i>bhadoi</i> rice and jute may now be estimated at 18 annas each. Price of rice as before.
	Thakurgaon ...	2.35	
	12 Rajshahye „ 12, '90	6.45	Weather—rainy and clouds gathering. Reaping of jute going on. Condition of standing crops (sugarcane, <i>bhadoi</i> , &c.) good. Transplanting of winter paddy (<i>amun</i>) commenced in Borind, and sowing going on elsewhere. More rain wanted in Borind.
	Natore ...	3.61	
	Nowgong ...	2.33	
RAJSHAHYE DIV.	13 Rungpur „ 12, '90	1.28	A break in the rains. Temperature high, but the effect is modified by cool easterly winds. Transplantation of <i>amun</i> rice proceeding. <i>Aus</i> harvest drawing to a close with excellent results. Much damage has been done by floods in the Brahmaputra churs owing to the sudden rise of that river.
	Kurigram ...	1.32	
	Gaibanda ...	1.85	
	Nilphamari ...	4.23	
	14 Bogra „ 12, '90	1.84	Weather—seasonable. Jute is being cut and steeped in some places. The crop is likely to be a bumper one. The harvest of <i>aus</i> rice has begun, with good outturn. The transplantation of <i>amun</i> is going on. Common rice is selling at 18 seers per rupee.
	Sherpur ...	2.27	
	Nowkhilla ...	2.21	
	15 Pubna „ 12, '90	2.33	Weather—cloudy and rainy. Jute, <i>amun</i> , and <i>aus</i> doing well. Jute and <i>aus</i> are being harvested at Serajgunge. Prices slightly lower.
	16 Darjeeling „ 12, '90	17.11	Weather—rainy with occasional breaks in the hills. Too much rain in the Terai. The excessive rain in the Terai is likely to injure the jute and <i>bhadoi</i> crops. <i>Bhutta</i> , <i>bhadoi</i> , <i>marua</i> , and <i>haimanti</i> progressing well. Potatoes being harvested in some places in the hills. Prospects good.
	17 Julpigoree „ 12, '90	11.30	Weather—cloudy and sultry. <i>Bhadoi</i> paddy and jute growing well. In some of the thanas the condition of these crops is bad owing to heavy rain. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca ...	.....	Report not received.
	19 Farreedpur July 12, '90	0.95	Weather—seasonable. Some portions of thanas Farreedpur and Ainpur have been overflowed and some damage done to the crops. Elsewhere prospects are favourable. Price of rice stationary.
	20 Backergunge „ 12, '90	3.16	Weather—seasonable. Prospects of <i>aus</i> crop fair, but the <i>amun</i> seedlings have been injured in some places by the sudden rise of water. Common rice selling at about 13 seers per rupee.
Chittagong Divn.	21 Mymensingh „ 12, '90	4.41	Weather—seasonable. Rain falls every day. Prospects of standing crops very good. Harvesting of <i>aus</i> rice has commenced. <i>Amun</i> rice is being transplanted. Common rice sells at 13½ seers per rupee.
	22 Chittagong „ 12, '90	17.59	Weather—seasonable. <i>Pania aus</i> being harvested. Common rice selling at 17 seers per rupee.
	23 Noakholly „ 12, '90	5.46	Weather—seasonable. State of <i>aus</i> crop good. Sowing of <i>amun</i> progressing. Price of rice stationary.
	24 Tipperah „ 12, '90	4.59	Weather—cloudy, cool and damp. <i>Amun</i> and jute thriving. <i>Aus</i> being harvested. Prospects favourable. Prices stationary.
	25 Chittagong Hill Tracts. „ 11, '90	4.13	Showers daily. Strong south-west wind throughout the week. <i>Jum</i> paddy and cotton plants progressing. Lands are being ploughed for late rice crop. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.	Hill Tipperah „ 11, '90	1.73	Weather—rainy and cool. Harvesting of <i>aus</i> paddy continues. Transplanting of <i>amun</i> going on. Prospects of jute favourable. Common rice selling at 15 seers per rupee.
	26 Patna „ 12, '90	2.81	Weather—hot. Alternate rain and sunshine during the week. Sowing of paddy and <i>bhadoi</i> crops still going on. <i>Makai</i> , <i>kanni</i> , and paddy previously sown are growing well. Prices of food-grains slightly rising.
	Dinapore „ ...	1.45	
PATNA DIVN.	27 Gya „ 12, '90	10.06	Weather—hot and cloudy. Transplanting of <i>marua</i> and sowing of <i>makai</i> and paddy going on. Sugarcane doing well. Sufficient rain for <i>bhadoi</i> . Prices of food-grains stationary.
	28 Shahabad „ 12, '90	5.94	Weather—cloudy and rainy with occasional breaks. Sowing of <i>bhadoi</i> and transplanting of paddy in progress. Sugarcane doing well. Prospects hopeful.
	Buxar ...	1.04	
	Bhabuah ...	1.70	
	Sasseram ...	1.34	
	29 Durbhunga „ 12, '90	4.91	Weather—cloudy and rainy. Prospects of <i>bhadoi</i> very favourable. Transplanting of <i>marua</i> is rapidly progressing. Paddy seedlings doing well.
	Madhubani ...	2.23	Indigo manufacture in progress. Price of common rice varies from 14 to 15½ seers per rupee.
	Somaatipur ...	1.21	
	30 Mozufferpur „ 12, '90	3.76	Weather—rainy on most days of the week. Temperature moderate. Transplantation of <i>marua</i> and rice has commenced. Prospects of all crops good.
	Hajipur ...	6.45	
BAGULPORE DIVN.	Sitamarhi ...	2.87	
	31 Sarun „ 12, '90	1.55	Weather—wet and stormy. Rain almost daily. Prospects promising, but a few days' sun required for all crops.
	32 Chumparun „ 12, '90	5.59	Weather—very hot; fair and cloudy alternately. Sufficient rain all over the district. Transplantation of rice progressing. <i>Bhadoi</i> crops thriving.
	Bettiah ...	6.09	Indigo manufacture going on. Prices almost stationary.
	33 Monghyr „ 12, '90	0.53	Weather—cloudy and warm with easterly wind. <i>Bhadoi</i> sowings doing well, also indigo and <i>makai</i> . The area submerged in Jamui has been resown.
	Beguserai ...	0.66	
	Jamui ...	0.30	
	34 Bhagulpur „ 12, '90	5.01	Weather—rainy. Transplanting in progress. In Soopool the late heavy rain has facilitated transplanting of <i>bhadoi</i> , which was backward. In Banka half the area under <i>makai</i> has been sown already.
	Banka ...	0.91	
	Mudhepura ...	5.20	
	Soopool ...	5.63	
	35 Purneah „ 12, '90	5.58	Weather—showery and sultry. <i>Bhadoi</i> rice is being weeded; it is everywhere a good crop. Indigo is being manufactured. Transplantation of <i>aghani</i> rice going on. <i>Kanni</i> is being harvested.
	Kishengunge ...	6.62	
	Arrareah ...	7.12	
	36 Maldah „ 12, '90	2.13	Weather—rainy and cloudy; high east wind at times. <i>Bhadoi</i> sowings completed. Transplantation of winter paddy begun, but some more rain is wanted for it at Bumangola. Indigo manufacture continues. Common rice selling at from 13 to 17 seers per rupee.
	Chanchal ...	1.83	
	Shibgunge ...	4.32	
	Gajole ...	1.29	
	37 Sonthal Perghs. „ 12, '90	5.14	Very heavy rain at the Sudder; good rain everywhere. Prospects of crops excellent.
	Deoghur ...	1.53	
	Godda ...	2.63	
	Jamtara ...	1.90	
	Palour ...	2.78	
	Rajmehal ...	2.76	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack July 12, '90	2.55	Weather—seasonable. Extent of the cultivation of <i>satika</i> is as follows:— Annas. Sudder 16 Jajpur 14.4 Kendrapara 14 Banki 16 <i>Satika</i> is being weeded and is in excellent condition. General prospects good.
	39 Pooree „ 10, '90	2.44	Weather—seasonable. Puddling and transplanting of <i>sarad</i> crop going on.
	Khoorda „ ...	2.15	<i>Beali</i> crop is being weeded. Prospects good. Price of common rice stationary.
	40 Balasore „ 12, '90	0.55	Weather—cool and cloudy. Transplanting and puddling of rice crop in progress. Prospects generally good. Number of coolies on relief-works 40.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh July 12, '90	2.81	Weather—seasonable. Sowings of paddy and <i>bhadoi</i> crops still in progress, but nearing completion. Prospects good. Prices stationary.
	42 Lohardugga „ 12, '90	1.78	Weather—warm and cloudy. Rain daily during the week. Sowing of winter rice continues. Prospect of <i>bhadoi</i> good. Outturn of mango at Palamow estimated at 12 annas, and at head-quarters 16 annas.
	Palamow (up to 9th July)	2.21	
	43 Singbhoom July 12, '90	2.80	Weather—favourable. All crops doing well.
CHOTA NAGPORE DIVN.	44 Manbhoom „ 12, '90	1.38	Weather—seasonable. Paddy sowing is being carried on vigorously. The late heavy rain has done some harm to the <i>bhadoi</i> crops. A break for a few days is desirable.
	Govindpore „ ...	1.56	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 15th July, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
6th to 12th July 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
July	6th	139.7	1.1	29.537	81.8	85.4	9.7	75.7	78.8	0.948	77.6	87	SSW and calm	62	0.09	Chiefly cloudy, o, d.
"	7th	146.1	3.5	.514	82.8	85.5	9.1	76.4	78.3	.916	76.6	83	SSW and SW	153	Nil	Chiefly cloudy, o.
"	8th	146.8	3.2	.527	82.1	86.8	10.1	76.7	78.2	.916	76.6	84	SW by S and SSW	156	0.05	Chiefly cloudy, o, g, d.
"	9th	163.5	2.7	.492	82.0	88.8	11.3	77.5	78.8	.941	77.4	86	SW by S and variable.	52	1.30	Chiefly cloudy, o, g, d, p. t.
"	10th	137.3	3.6	.506	80.9	83.8	7.2	76.6	78.5	.944	77.5	90	SSW, SSE and calm	101	1.82	Chiefly cloudy, o, d, p.
"	11th	131.7	0.4	.537	80.4	83.8	8.2	75.6	78.1	.933	77.1	90	SE by S, SW and SSW.	103	0.23	Chiefly cloudy, o, g, d, p.
"	12th	150.7	6.5	.521	83.4	88.5	11.2	77.3	78.7	.919	76.7	80	SSW and SW	88	Nil	Partially cloudy.

The mean pressure of the seven days Inches.
29.519

The average pressure of the corresponding period for 24 years, S.-G.'s Office 29.551

The total number of hours of bright sunshine Hours.
21.0

The maximum possible number of hours of sunshine 93.9

The mean temperature of the seven days 81.8

The average temperature of the corresponding period for 24 years, S.-G.'s Office 84.0

The extreme variation of temperature 13.2

The maximum temperature 88.8

The highest velocity of the wind in one hour Miles.
13

The highest pressure of wind on one square foot lbs.
Approximately 2

The mean relative humidity %
86

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 85

The total fall of rain from 6th to 12th July 1890 Inches.
3.54

The average fall of the corresponding period for 24 years, S.-G.'s Office 2.17

The total fall from 1st January to 12th July 1890 26.58

The average fall of the corresponding period for 24 years, S.-G.'s Office 26.22

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; d, drizzling rain; g, gloomy; p, passing temporary showers; t, thunder.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 14th July 1890.

Meteorological Report of the Province of

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.															
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.		Rainfall.	
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.		Variation from normal mean, 8 A.M.
ORISSA.	Pooree	Pooree	29.714	29.400	29.594	29.606	—	94.2	75.1	90.0	81.5	85.8	—	87	—	6.6	—	7.70
	Gopalnora	Gopalnora	29.697	29.422	29.588	29.609	+0.15	91.2	78.3	88.1	82.1	85.1	+0.8	82	—	4.3	—	3.70
	False Point	False Point	29.709	29.394	29.589	29.610	—0.08	94.0	73.1	89.3	79.9	84.6	—1.0	81	—3	7.4	+0.2	10.40
	Cuttack	Cuttack	29.658	29.348	29.534	29.615	+0.09	103.4	76.8	93.7	79.7	86.7	—1.5	77	+3	7.1	+0.7	9.87
SOUTH-WEST BENGAL.	Balasore	Balasore	29.680	29.383	29.552	29.611	+0.13	98.5	73.8	90.9	77.8	84.3	—1.5	86	—	3.8	—	14.20
	South-West Midnapore and South 24-Pergunnahs	Saugor Island	29.710	29.432	29.586	29.612	+0.05	93.2	75.0	90.3	81.7	86.0	—0.4	84	—3	8.0	+1	9.50
	Midnapore	Midnapore	29.577	29.317	29.450	29.599	—0.01	100.3	72.2	92.7	78.5	85.6	—1.9	80	—	3.9	—	17.75
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29.714	29.431	29.582	29.604	+0.03	95.5	71.2	90.0	78.2	84.1	—1.0	85	+2	7.0	—0.3	13.40
SOUTH-WEST BENGAL.	Burdwan	Burdwan	29.609	29.388	29.436	29.586	—0.12	99.7	74.4	92.7	78.9	85.8	—1.1	83	+3	8.9	+1.7	21.10
	Bankoora	Bankoora	29.390	29.112	29.273	29.571	—0.04	100.6	72.1	95.9	81.0	88.5	—	84	—	6.4	—	12.14
	West Burdwan	Ranigunge	29.391	29.091	29.263	29.593	+0.04	104.5	75.9	94.0	78.9	86.6	—1.5	85	—	5.0	—	17.80
	Beerbhoom	Ranigunge	29.391	29.091	29.263	29.593	+0.04	104.5	75.9	94.0	78.9	86.6	—1.5	85	—	5.0	—	17.80
SOUTH-WEST BENGAL.	Moorshedabad	Berhampore	29.635	29.299	29.522	29.589	—0.14	100.7	73.3	92.9	78.2	85.6	0	89	+7	8.5	+0.2	16.70
	Nuddea	Krishnagore	29.677	29.327	29.551	29.612	+0.04	97.3	71.8	91.8	77.9	84.9	—1.2	83	—	7.1	—	18.70
	Jessore and Khoorna	Jessore	29.695	29.399	29.580	29.614	—0.08	96.8	74.9	91.6	79.0	85.3	0	89	+2	8.0	—0.7	19.70
	Chittagong	Chittagong	29.713	29.464	29.595	29.684	—0.03	90.1	72.5	86.8	77.0	81.9	+0.6	83	—5	6.6	—1.4	15.40
EAST BENGAL.	Chittagong Hill Tracts	Demagri	Observations not received.															
	Backergunge	Barrisal	29.752	29.400	29.627	29.639	+0.04	91.8	74.4	87.8	78.6	83.2	+0.4	87	—	6.6	—	19.10
	Noakholly	Noakholly	29.760	29.508	29.632	29.676	+0.16	89.5	69.8	86.0	77.7	81.9	+0.2	88	—	3.6	—	17.30
	Furzedpore	Furzedpore	29.728	29.439	29.609	29.639	+0.09	94.5	73.9	88.5	78.2	85.4	+0.5	90	—	5.8	—	9.72
EAST BENGAL.	Dacca	Dacca	29.742	29.462	29.613	29.636	—0.01	92.6	70.2	88.7	77.0	82.9	—0.8	90	+1	8.5	+0.4	9.07
	Tipperah	Commillah	29.739	29.473	29.624	29.660	+0.07	92.3	71.3	87.8	77.3	82.3	—0.1	87	—	6.0	—	15.07
	Mymensingh	Mymensingh	29.706	29.439	29.583	29.641	—0.04	90.7	71.1	86.3	76.7	81.5	—0.9	93	—	8.1	—	21.60
	Bogra	Bogra	29.681	29.381	29.544	29.607	+0.08	93.3	68.6	89.1	76.8	82.9	—0.7	88	—	7.5	—	14.30
NORTH BENGAL.	Pabna	Serajunge	29.697	29.414	29.572	29.619	—0.08	92.1	70.7	88.4	76.8	82.6	—0.4	91	—	8.1	—	9.40
	Rajshahye	Rampore Beaulah.	29.648	29.310	29.551	29.601	+0.09	97.8	73.2	90.6	78.1	84.4	+0.6	86	—	5.4	—	16.30
	Maldah	Maldah	29.649	29.323	29.515	29.596	+0.02	96.9	73.3	91.2	77.0	84.0	—	89	—	5.4	—	11.70
	Dinapore*	Dinapore	29.646	29.323	29.485	29.606	—0.27	93.1	69.6	87.6	77.6	82.6	—0.3	91	—	7.60	—	19.10
NORTH BENGAL.	Rungpore	Rungpore	29.673	29.396	29.519	29.644	—0.09	92.8	70.7	87.0	76.2	81.6	—0.5	89	—	5.8	—	25.00
	Julpigoree and Cooch Behar.	Julpigoree	29.469	29.199	29.344	29.633	—0.17	90.4	70.1	85.0	73.7	79.4	—1.3	94	—	5.0	—	42.70
	Darjeeling Hill Tracts...	Darjeeling	29.928	29.741	29.855	—	—0.30	67.9	53.6	64.1	60.0	60.1	+0.1	97	+4	9.2	+0.5	31.20
	Furneah and North Bhagulpore.	Furneah	29.587	29.218	29.468	29.595	—0.08	93.7	70.4	88.4	76.7	82.6	—2.2	89	+3	7.0	+0.4	20.70
NORTH BENGAL.	Mozufferpore	Mozufferpore	29.470	29.274	29.390	29.370	—	102.4	73.2	93.9	78.5	86.2	—	85	—	4.4	—	7.70
	Durbhunga	Durbhunga	29.523	29.246	29.425	29.591	—0.06	99.4	?	92.3	?	?	?	86	+4	5.0	+0.5	11.70
	Chumparun	Motihari	29.455	29.214	29.333	29.500	+0.07	98.2	71.8	91.6	76.8	84.2	—1.5	84	—	7.4	—	11.50
	Sarun	Chupra	29.463	29.244	29.369	29.561	—0.23	104.3	74.6	94.7	78.9	86.8	—1.2	81	—	4.1	—	8.90
SOUTH BENGAL.	Shahabad	Dehree	29.326	29.074	29.222	29.673	+0.04	116.4	70.0	98.0	80.7	89.4	+1.3	72	—	4.6	—	16.30
		Buxar	29.416	29.176	29.317	29.518	—0.17	107.9	74.3	95.6	79.5	87.6	—1.6	76	—	6.5	—	8.30
		Arrah	29.445	29.240	29.360	29.564	—0.12	107.9	76.6	96.9	79.9	88.2	—0.9	78	—	6.3	—	11.70
	Gya	Gya	29.290	29.065	29.197	29.572	0	110.6	75.8	98.8	81.8	90.3	+0.6	73	+6	6.3	—0.1	11.10
SOUTH BENGAL.	Panna	Bankipore	29.466	29.244	29.377	29.500	—0.24	104.5	74.7	95.5	79.0	87.2	—1.4	80	+7	6.2	0	7.70
	South Bhagulpore and Monghyr.	Bhagulpore	29.522	29.188	29.403	29.565	—0.18	100.8	74.0	91.2	78.6	84.9	—0.4	85	—	7.4	—	10.70
	Sonthal Pergunnahs	Naya Doomka...	29.221	29.880	29.081	29.574	—0.03	102.7	71.8	92.5	78.4	85.4	—1.2	81	—	4.5	—	14.70
	Hazaribagh	Hazaribagh	27.714	27.465	27.590	29.583	—0.08	103.5	70.2	91.1	76.6	83.4	—1.0	75	+7	8.2	+1.3	8.70
CALCUTTA AND NEARBY.	Lohardugga	Ranchee	27.601	27.324	27.481	29.585	—0.06	101.0	70.9	89.1	73.6	81.4	—2.7	76	—	7.7	—	16.70
	Manbhoom	Ranchee	27.601	27.324	27.481	29.585	—0.06	101.0	70.9	89.1	73.6	81.4	—2.7	76	—	7.7	—	16.70
	Singbhoom	Chyebassa	28.953	28.672	28.826	29.585	+0.16	105.3	74.7	94.7	79.0	86.8	—2.0	74	—	6.3	—	8.70
	Assam	Sibsagar	29.460	29.258	29.353	29.688	+0.05	92.6	71.0	88.1	76.2	82.2	—1.1	96	+7	10.9	+1.3	17.70
ASSAM.		Dhubri	29.656	29.381	29.521	29.639	—0.07	90.2	70.3	82.8	75.0	78.9	—2.4	93	+3	9.3	+1.9	20.70
		Silchar	29.691	29.433	29.580	29.656	0	93.5	72.8	88.9	76.7	82.4	+0.5	90	+9	8.8	+0.5	21.70

* Mean of 26 days.

+	27
+	28
+	29

Bengal for the month of June 1890.

DISTRICT OBSERVATIONS.										Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.												
Of month.					Since 15th May 1890.							
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.			
9'99	8'42	+1'57	16'0	11'4	12'00	10'13	+1'86	20'8	14'5	Pooree Gopalpore False Point	Pooree	ORISSA.
9'29	9'52	-0'23	14'6	12'1	12'38	11'59	+0'79	20'2	16'2	Cuttack	Cuttack	
12'80	8'40	+4'40	15'2	12'0	17'03	10'97	+6'06	24'0	16'2	Balasore	Balasore	
9'91	9'81	+0'10	15'7	14'1	16'88	12'06	+4'82	24'7	18'2	Saugor Island	South-West Midnapore and South 24-Pergunnahs.	SOUTH-WEST BENGAL.
14'23	9'44	+4'79	17'3	12'5	20'43	11'57	+8'86	25'3	16'5	Midnapore	Midnapore	
14'64	9'80	+4'78	16'4	15'4	19'28	12'49	+6'79	23'8	20'3	Calcutta	24-Pergunnahs, Howrah, and Hooghly.	
20'29	8'88	+11'41	18'7	13'5	23'12	11'50	+11'62	24'0	17'8	Burdwan	Burdwan	SOUTH-WEST BENGAL.
14'62	9'98	+4'64	16'3	14'0	18'67	12'09	+6'58	22'5	18'1	Bankoora	Bankoora	
17'22	10'07	+7'15	17'3	14'3	18'99	12'07	+6'92	22'1	18'7	Ranigunge	West Burdwan and Beerbhoom.	
11'72	9'13	+2'59	13'8	13'5	14'30	12'28	+2'02	17'8	18'3	Berhampore	Moorshedabad	SOUTH-WEST BENGAL.
12'21	9'72	+2'49	16'8	14'6	16'00	13'23	+2'77	23'6	19'8	Krishnagore	Nuddea	
14'65	12'32	+2'33	17'8	16'5	19'31	15'09	+3'62	24'3	22'0	Jessore	Jessore and Khoolna	
25'29	20'63	-4'34	18'5	21'6	20'78	34'91	-5'13	26'0	27'5	Chittagong	Chittagong	EAST BENGAL.
14'56	19'40	-4'84	19'0	21'6	20'63	23'66	-3'01	26'5	28'0	Demagri	Chittagong Hill Tracts	
16'29	19'20	-2'91	19'5	20'4	22'36	23'09	-0'73	26'5	26'6	Barrisal	Backergunge	
19'79	27'32	-7'53	19'0	20'0	27'80	32'09	-4'29	27'0	26'4	Noakholly	Noakholly	EAST BENGAL.
9'07	12'55	-3'48	13'7	17'5	12'61	16'89	-4'28	22'0	23'3	Furreedpore	Furreedpore	
13'29	13'29	0	18'7	18'4	21'96	17'34	+4'62	27'5	24'4	Dacca	Dacca	
14'70	16'45	-1'75	17'3	19'0	20'65	20'70	-0'05	25'3	25'4	Commillah	Tipperah	EAST BENGAL.
19'78	17'48	+2'30	20'2	18'2	27'34	22'45	+4'89	28'2	24'7	Mymensingh	Mymensingh	
16'34	12'77	+3'57	17'3	15'5	20'73	17'37	+3'36	24'8	21'2	Bogra	Bogra	
10'50	11'16	-0'65	16'5	16'4	16'66	14'95	+1'71	23'5	22'0	Serajunge	Pubna	NORTH BENGAL.
18'07	11'09	+6'98	18'0	14'1	22'77	14'60	+8'17	23'3	19'1	Rampore Beau- leah.	Rajshahye	
11'26	11'86	-0'60	19'0	15'4	13'68	14'65	-0'97	24'0	19'4	Maldah	Maldah	
16'63	13'52	+3'01	17'4	14'8	20'01	17'69	+2'32	23'0	19'3	Dinapore	Dinapore	NORTH BENGAL.
28'61	21'30	+6'71	23'5	17'2	32'48	28'70	+3'78	32'5	23'9	Rungpore	Rungpore	
44'13	31'08	+13'05	26'6	22'0	47'68	39'83	+7'85	37'2	30'7	Julpigoree	Julpigoree and Cooch Behar.	
32'59	28'42	+3'97	29'5	22'8	36'82	35'20	+1'62	40'0	31'8	Darjeeling	Darjeeling Hill Tracts.	NORTH BENGAL.
16'25	11'50	+4'75	17'2	12'1	18'44	14'55	+3'89	22'0	15'3	Purneah	Purneah and North Bhagulpore.	
8'56	7'42	+0'94	14'0	8'9	10'14	8'78	+1'36	17'0	11'0	Mozufferpore	Mozufferpore	
10'87	8'03	+2'84	15'0	9'9	12'09	9'39	+2'70	18'0	11'9	Durbhunga	Durbhunga	NORTH BENGAL.
12'65	8'19	+4'46	13'5	9'5	16'37	9'54	+6'83	17'5	11'8	Motihari	Chumparun	
10'53	6'42	+4'11	13'0	8'8	12'20	7'54	+4'66	14'7	10'4	Chupra	Saran	
10'32	5'01	+5'31	13'2	8'6	16'91	5'87	+5'04	14'4	10'2	Dehree Buxar Arrah	Shahabad	SOUTH BENGAL.
13'18	5'63	+7'55	12'5	8'3	14'09	6'99	+7'10	14'3	10'2	Gya	Gya	
8'40	6'24	+2'22	11'3	9'1	9'76	7'69	+2'07	13'1	11'1	Bankipore	Patna	
12'94	6'93	+5'09	14'4	10'6	14'81	8'57	+6'24	18'0	12'8	Bhagulpore	South Bhagulpore and Monghyr.	SOUTH BENGAL.
15'69	8'56	+6'65	15'7	13'2	17'97	11'37	+6'60	20'7	16'5	Naya Doonka	Sonthal Pergunnahs	
11'33	8'08	+3'45	14'2	12'6	12'17	9'64	+2'53	17'2	15'6	Hazaribagh	Hazaribagh	
7'57	7'42	+0'39	13'0	12'7	9'22	9'22	0	17'3	16'1	Ranchee	Lohardugga	SOUTH BENGAL.
12'36	8'08	+4'28	16'5	14'4	13'85	9'74	+4'11	19'5	18'0		Manbhoom	
8'94	8'30	+0'74	15'0	15'8	12'13	10'87	+1'26	22'0	20'7	Chyebassa	Singhoom	SOUTH BENGAL.
										Sibsagar	Assam	
										Imphal	Assam	
										Silchar	Assam	

Table of Rainfall recorded at Stations

[illegible]

Bengal in June 1890.

11	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	Station.	District.	Meteorological division.
0.03	0.08	0.04	0.32	...	...	...	...	0.20	0.88	13	11.5	9.29	7.55	3.10	12.53	13.01	Pooree	Pooree	ORISSA.
0.75	...	0.38	0.02	...	...	...	0.30	0.20	1.70	18	13.8	13.74	9.10	3.88	22.01	14.91	Khurdah.	...	...
0.38	0.19	0.26	0.08	0.02	...	0.38	0.10	0.00	0.04	15	9.1	6.52	7.11	1.76	12.20	11.71	Banpur.	...	...
...	...	...	0.45	...	...	0.05	0.05	0.20	0.10	10	?	5.85	?	2.50	?	?	False Point.	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Gop.	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Satpara.	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pipli.	...	...
...	0.20	...	...	...	...	...	...	0.10	2.10	12	8.6	9.48	7.54	2.10	12.75	12.79	Jagatsingapore	Cuttack.	...
...	...	0.14	...	...	...	0.33	1.25	0.87	0.16	16	16.0	11.40	10.28	2.60	18.79	15.41	Banki.	...	...
...	...	0.15	0.18	...	...	0.36	0.20	0.25	...	16	16.6	12.24	10.54	4.75	18.47	17.38	Cuttack.	...	...
...	0.02	0.18	0.05	...	...	0.05	0.03	0.22	0.05	16	9.6	4.72	8.52	1.83	9.04	15.56	Kendrapara.	...	...
...	...	1.10	0.32	...	0.32	...	...	0.43	...	13	10.8	8.62	9.52	3.55	16.82	18.55	Jajpore.	...	...
...	1.00	0.55	...	0.55	...	...	0.25	...	1.82	16	?	13.40	?	1.90	20.25	?	Dharmasala.	...	...
...	0.03	0.21	...	...	0.10	0.09	0.72	...	3.20	17	?	12.44	?	3.20	15.66	?	Salipore.	...	...
...	...	0.74	0.16	...	...	0.22	...	1.21	0.23	14	10.5	8.81	7.33	1.21	13.93	15.83	Chandball	Balasore.	...
...	...	0.18	0.05	0.30	0.03	...	0.13	3.05	...	17	11.3	14.36	8.68	3.65	21.98	18.93	Bhuddruck.	...	...
...	0.70	...	...	...	...	0.22	0.40	0.70	0.31	12	11.2	11.88	6.60	5.00	19.44	16.13	Sorah.	...	...
...	...	0.84	0.28	...	0.03	...	0.61	5.36	0.29	15	13.2	14.76	9.87	5.36	25.23	21.54	Balasore.	...	...
...	0.80	1.15	0.70	0.05	...	...	0.36	...	...	13	10.4	12.22	7.71	4.50	23.07	15.40	Jellasore.	...	...
...	0.70	2.26	0.47	0.04	0.45	0.30	2.45	0.61	0.76	20	15.4	14.77	10.55	2.45	21.67	19.00	Baripodah.	...	...
...	0.80	1.00	0.26	0.05	...	...	0.26	...	...	17	12.0	10.18	10.32	3.56	22.64	19.11	Contal	Midnapore	SOUTH-WEST BENGAL.
...	0.85	2.24	0.99	0.10	0.10	...	...	...	...	16	14.3	9.80	10.86	2.34	16.41	19.50	Saugor Island.	...	...
...	1.50	1.79	0.40	0.10	0.20	...	0.10	...	...	17	10.6	12.70	8.92	3.40	23.10	18.67	Tumlook.	...	...
...	7.14	2.55	0.66	0.58	0.97	0.48	0.06	6.27	0.06	18	13.2	17.50	9.52	7.14	24.88	15.45	Midnapore.	...	...
...	3.52	2.46	0.18	0.26	0.12	0.36	...	1.05	...	17	13.8	12.48	9.79	3.52	19.18	10.76	Ghatol.	...	...
...	0.03	1.13	0.46	0.28	0.09	...	0.34	0.25	...	15	?	7.16	?	1.13	13.68	?	Akrahatty.	...	...
...	1.08	1.85	0.22	0.88	1.36	...	...	...	...	14	?	11.06	7.80	1.85	19.64	17.09	Garbeta.	...	...
...	1.34	1.42	0.18	0.34	0.06	...	...	...	0.20	14	15.0	9.76	9.35	2.00	17.61	20.42	Diamond Har-	24-Pergunnahs.	...
...	2.36	1.32	0.76	2.54	...	...	0.10	1.85	...	19	?	14.50	...	2.54	19.54	?	Canning Town.	...	...
...	3.04	2.03	1.37	0.63	0.07	...	...	...	0.04	20	16.5	13.03	9.79	3.04	21.03	20.76	Alipore Jail.	...	...
...	1.70	3.35	0.83	0.03	1.36	...	0.10	...	...	15	13.7	11.82	8.80	3.35	19.20	19.31	Barrackpore.	...	...
...	2.80	2.00	0.82	0.31	0.06	...	0.30	0.02	...	16	16.0	13.28	9.60	4.06	18.82	20.75	Dum-Dum.	...	...
...	1.88	3.14	0.49	0.40	0.06	...	0.19	...	...	13	15.0	10.59	9.69	3.14	19.43	21.02	Barasat.	...	...
...	...	3.25	1.01	2.56	0.08	...	...	...	...	18	15.1	14.25	10.09	3.25	27.40	22.85	Buseerhat.	...	...
...	3.25	1.36	0.80	0.30	0.13	...	0.17	0.41	...	17	17.4	13.44	10.07	3.25	18.33	21.51	Howrah	Howrah.	...
...	3.70	2.10	0.62	0.19	0.25	...	0.11	1.40	...	20	14.8	14.86	8.64	4.45	31.34	19.27	Mohesreka	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(Oolooberiah).	...	...
...	1.56	3.40	0.75	0.06	1.54	...	0.11	...	...	16	16.3	12.67	9.52	3.40	19.61	19.53	Serampore	Hooghly.	...
...	3.47	3.95	2.68	0.09	0.13	...	...	...	...	13	14.6	15.47	10.39	3.95	21.34	22.34	Hooghly.	...	...
...	2.02	8.40	0.08	1.27	0.22	...	0.85	...	...	16	14.2	16.04	9.29	8.40	24.12	19.08	Jehanabad.	...	...
...	0.85	8.20	0.70	0.89	0.13	0.32	...	0.25	...	17	11.4	18.07	8.36	8.20	24.18	18.46	Culna	Burdwan.	...
...	1.39	7.24	0.62	0.75	0.83	1.12	2.46	0.70	0.02	21	15.7	21.02	9.37	7.24	30.15	19.06	Burdwan.	...	...
...	4.02	0.55	1.15	0.45	1.51	0.95	1.11	...	...	18	13.4	21.78	9.90	5.00	27.76	19.97	Cutwa.	...	...
...	2.25	8.05	2.65	0.07	0.17	...	0.64	0.50	0.24	10	14.1	17.89	8.43	8.05	22.11	14.95	Raneengunge.	...	...
...	0.68	9.77	0.42	0.60	0.66	...	0.10	0.65	0.03	...	...	...	...	9.77	23.02	?	Mankur.	...	...
...	0.80	3.72	2.01	0.16	0.50	...	0.09	0.54	0.01	14	?	...	...	...	...	...	Bankoora	Bankoora.	...
...	1.36	4.00	0.94	0.83	0.47	...	1.32	...	...	10	15.3	12.16	9.68	3.72	10.02	17.57	Bishnupore.	...	...
...	0.67	7.00	1.95	0.10	...	...	0.08	1.71	0.11	16	12.6	21.94	10.30	7.00	24.77	16.81	Majara.	...	...
...	0.40	1.20	1.31	0.24	0.39	...	1.67	0.06	1.4	14.5	8.95	11.19	1.67	13.47	17.45	?	Khatra.	...	...
...	0.32	5.80	0.92	0.71	1.36	0.68	1.64	1.90	0.03	18	?	16.26	?	5.30	20.97	?	Indas.	...	...
...	4.40	3.90	0.71	0.62	0.93	...	1.12	0.50	0.33	17	?	18.54	?	4.40	27.00	?	Kotalpore.	...	...
...	2.60	0.90	1.55	0.52	...	...	0.60	0.70	...	15	?	12.51	?	2.60	16.71	?	Aoda.	...	...
...	0.72	4.12	3.97	...	...	...	3.27	0.30	...	14	?	23.18	?	4.12	27.84	?	Gangajalhati.	...	...
...	1.19	1.60	0.72	0.79	0.42	...	0.09	1.96	...	14	?	10.24	8.85	1.06	18.14	16.10	Raipore.	...	...
...	0.51	6.07	1.79	0.62	...	...	2.01	0.17	...	14	?	14.25	?	6.07	18.36	?	Sonamukhi.	...	...
...	0.85	5.84	3.00	0.26	0.11	0.03	...	1.07	0.14	17	15.7	16.36	10.10	5.84	19.31	16.39	Bh. Soory	Beerbhoom.	...
...	6.80	2.25	0.19	0.80	0.04	...	0.44	0.84	...	18	13.4	17.62	10.62	6.80	21.79	17.26	Hetampore.	...	...
...	2.55	3.25	1.74	0.01	...	...	1.15	...	...	15	14.1	17.00	9.35	3.25	20.48	16.42	Rampore Hant.	...	...
...	1.02	5.31	1.08	0.75	0.04	...	...	...	1.66	14	?	16.59	?	5.31	21.91	?	Bolpur.	...	...
...	1.05	0.15	1.10	...	1.70	...	0.25	1.20	...	16	?	10.21	?	1.70	15.67	?	Murari.	...	...
...	2.41	4.43	1.27	0.44	0.07	...	...	...	...	15	12.7	15.04	9.40	4.43	20.20	20.18	Ringshat	Nudda.	...
...	0.97	8.17	1.06	0.69	0.11	0.39	...	0.10	...	18	15.1	14.31	9.52	8.17	21.18	21.12	Kishnagar.	...	...
...	1.75	0.55	1.15	0.29	0.20	...	0.19	1.00	...	19	14.0	10.17	8.86	1.75	17.67	22.94	Choodanga.	...	...
...	0.08	0.80	3.00	0.94	...	...	0.58	0.05	...	15	14.4	11.87	9.36	3.00	16.87	21.70	Meharpore.	...	...
...	0.17	1.00	1.28	0.31	0.04	...	...	0.20	...	17	16.9	9.58	10.50	3.03	21.58	23.99	Kooshtes.	...	...
...	1.78	2.59	1.93	2.63	0.03	...	...	0.02	21	16.4	13.32	12.05	2.59	28.16	24.80	Satkhi	Khoolna	...	
...	4.50	1.42	4.30	3.10	2.15	...	...	0.15	19	16.2	20.84	12.73	4.50	30.77	26.51	Bagirhat.	...	...
...	2.88	2.52	2.05	2.09	0.16	...	...	0.18	15	17.6	15.74	12.54	2.88	25.09	26.11	Khoolna.	...	...
...	1.02	2.07	2.92	2.61	...	...	...	0.17	16	?	15.88	?	2.92	30.44	?	Nakipur.	...	...
...	1.84	1.39	3.66	2.67	...	0.37	...	...	17	?	16.54	?	3.66	23.99	?	Rampal.	...	...
...	1.22	2.90	3.85	0.51	0.01	...	2.92	...	...	16	16.9	14.45	10.82	3.85	20.75	24.38	Narail	Jessore.	...
...	4.10	0.92	0.96	0.10	0.05	0.06	0.04	...	0.36	23	18.3	16.92	13.13	9.02	30.4	28.47	Jessore.	...	...
...	0.80	2.68	0.85	0.82	...	0.02	0.62	...	...	14	16.4	10.51	12.45	2.68	17.19	25.91	Jhenidah.	...	...
...	0.06	2.33	0.62	0.27	...	0.02	0.62	...	0.16	20	17.9	11.88	11.65	2.33	23.13	27.25	Magoorah.	...	...
...	0.63	4.50	0.95	0.15	...	...	...	...	...	24	12.6	10.62	9.02	4.50	19.09	21.22	Bongong.	...	...
...	0.60	2.50	0.53	2.10	0.62	...	0.31	0.54	0.18	14	14.7	12.40	9.58	2.50	17.32	17.06	Kandi	Moorshedabad.	...
...	0.56	1.52	0.86	3.97	0.11	...	0.10	0.59	...	13	15.3	10							

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
EAST BENGAL —concl.	Backergunge...	Patuakhally ...	...	...	0.25	...	...	0.03	...	...	0.72	...	0.23	0.35	...	0.52	1.05	0.37	0.15	0.10	0.35	0.23
		Perozepore ...	0.11	...	...	...	0.44	0.03	...	...	0.50	0.51	1.07	0.67	...	2.33	...	0.09	0.65	0.31	0.18	0.22
		Burrisal ...	...	...	0.40	...	...	...	...	...	...	0.25	0.88	0.14	...	0.52	2.45	0.32	0.52	0.24	0.14	0.10
		Bhola ...	...	...	...	...	...	...	...	...	...	0.14	0.08	0.25	...	0.07	0.45	0.06	0.07	0.14	0.82	0.30
		Gournaddi	0.50	0.75	1.00	0.61
	Bauphal ...	0.06	...	...	...	...	...	...	...	0.15	...	0.33	0.27	0.77	...	0.72	0.05	...	...	...	...	...
	Noakholly ...	Noakholly ...	0.05	...	...	...	...	...	...	...	2.24	0.11	0.74	0.29	...	...	1.27	0.47	0.25	0.22	0.18	0.07
		Fenny ...	...	...	...	0.24	...	...	...	...	0.10	1.50	0.90	1.27	...	1.35	1.76	1.50	...	...	...	...
		Harishpore ...	...	...	...	...	...	...	...	...	1.75	1.20	3.10	2.40	0.40	1.39	1.09	...	0.35	...	0.16	0.10
		Ramganj ...	0.10	...	...	1.42	...	...	...	1.00	1.30	2.10	...	0.34	...	0.20	0.29	...	...	...	0.35	0.10
	Furreedpore...	Madaripore...	...	...	...	...	...	0.08	...	...	0.21	...	...	0.12	0.13	...	...	...	...	0.50	0.18	...
		Furreedpore...	...	...	...	...	...	...	1.20	0.95	2.10	...	...	0.37	0.15	...	...	...	0.32	0.62	0.10	...
		Goalundo ...	0.52	...	...	0.05	...	0.06	...	...	0.17	3.65	...	0.15	0.69	...	...	...	0.11	...	0.21	0.08
	Dacca ...	Munshigunge...	...	0.17	...	1.13	...	...	...	...	...	0.35	...	0.17	0.60	...	0.77	...	0.26	...	0.24	0.70
		Dacca ...	0.13	0.04	...	0.11	...	1.12	...	0.61	1.54	0.12	...	0.04	0.62	0.17	...	0.25	0.42	0.08	0.40	...	
		Narainkunge...	...	...	...	0.04	...	0.63	...	0.42	0.06	0.23	...	0.34	1.41	0.07	...	...	1.54	...	0.12	0.35
		Manickkunge...	0.26	...	...	0.40	...	1.07	...	1.00	0.75	2.45	...	...	0.25	...	...	0.10	0.10	0.15	0.05	0.09
		Joydebpore ...	0.25	...	...	1.01	...	0.29	...	1.21	0.66	2.71	...	0.25	0.11	1.15	0.62	0.35	0.04	0.03	0.13	0.10
	Hill Tipperah	Agartola ...	...	...	...	1.02	0.48	1.12	...	...	0.25	0.30	...	0.32	...	0.90	2.35	0.95	...	0.65	...	0.30
		Tipperah ...	Comilla ...	0.16	0.43	0.08	...	0.38	0.15	0.98	0.50	...	0.18	0.04	0.10	2.84	0.24	0.48
			Chandpore	1.27	0.80	0.90	1.30	...	2.00	1.36
			Brahmunberia...	0.07	0.96	...	0.18	...	1.04	0.64	...	0.88	1.20	0.16	0.65	2.61	0.20	...	0.15	0.63	0.01
	Ramchandrapore.		0.30	0.29	...	0.62	0.04	0.19	...	...	0.23	...	...	0.63	0.48	...	0.73	1.73	0.22	0.09	0.90	0.02
	Mymensingh...	Nasirnagar...	...	...	0.70	...	0.50	1.30	...	0.90	0.20	0.95	...	0.85	...	0.58	0.90	0.36	...	0.55	0.50	0.30
		Daudkandi ...	...	0.21	...	0.91	...	0.10	...	...	...	...	1.21	0.26	0.42	...	0.81	...	...	...	1.63	...
		Kasba ...	...	...	2.40	...	...	...	0.06	...	...	...	1.25	2.60	2.40	1.50	0.26	...	1.18	...	...	...
		Laksham ...	...	...	...	1.50	...	...	...	...	1.35	...	...	...	1.50	...	...	0.72	...	...	...	0.02
		Kishoregunge...	0.28	...	...	2.03	0.05	0.85	...	0.97	0.69	1.95	...	1.23	0.19	4.55	0.29	...	...	...	...	0.72
		Atia (Tangail)	0.23	0.11	...	0.09	...	...	...	0.27	2.77	...	...	0.89	...	0.25	...	...	...	...	...	1.12
		Mymensingh...	0.27	0.38	...	2.68	0.02	0.38	...	0.75	1.75	1.83	...	1.50	...	0.28	0.48	0.66	0.15	0.19	...	0.36	
		Jamailpore...	1.08	0.10	...	1.70	...	0.87	...	1.35	0.20	0.05	...	1.39	...	...	1.37	...	0.95	0.62	0.71	...
		Netrokona...	0.16	0.26	...	1.96	...	1.57	...	2.79	0.54	0.53	...	1.80	...	4.00	0.20	0.50	1.59	0.04	0.19	0.71	
	ORTH BENGAL	Subornakhally...	...	...	...	...	...	...	...	...	...	0.45	...	0.85	...	...	...	...	...	...	...	0.06
		Durgapore...	1.20	...	...	3.70	1.00	2.40	0.10	0.94	1.20	1.41	0.25	2.30	...	1.00	...	...	1.20	...	1.47	...
		Sherpore Town...	0.52	0.14	...	1.02	...	0.73	...	1.50	1.21	1.12	...	1.04	...	...	2.50	0.35	0.34	0.40	0.23	...
		Dewanganj ...	...	...	...	1.14	...	2.70	...	0.40	0.35	...	1.10	...	...	...	0.80	...	...	0.60	0.20	0.40
		Pubna ...	Pubna ...	0.90	...	...	0.62	...	...	...	0.95	3.31	0.05	0.71	0.65	0.35	...	...	...	0.84	...	0.12
		Serajung...	0.30	0.24	...	0.85	...	...	...	...	...	0.34	...	0.73	...	0.58	...	...	...	...	0.23	0.05
		Bogra ...	Sherpore ...	0.83	0.26	...	1.11	0.31	0.51	0.19	1.14	0.23	0.21
			Nowkhilla...	0.06	0.07	...	1.62	0.66	0.33	0.52	...	0.80	1.21
Bogra ...			0.02	...	...	1.66	...	...	...	1.30	0.12	0.68	0.06	0.52	0.63	0.07	...	...	...	...	0.43	...
Panchbibi...	1.25		...	...	1.60	0.65	...	...	0.18	1.84	1.35	...	3.35	0.10	2.30	...	0.40	0.55	...	...	0.70	
Rajshahye ...	Beaulah ...	0.61	0.28	...	...	...	...	...	...	3.28	1.25	...	0.14	0.61	0.68	...	...	...	...	...	0.15	
	Natore ...	1.40	...	...	0.40	...	1.03	...	...	0.85	1.12	0.04	1.50	...	0.83	...	...	0.10	0.05	...	0.07	
	Naogaon ...	0.79	...	...	1.30	0.20	...	0.42	1.15	1.05	0.12	0.20	...	...	0.87	...	...	...	0.23	0.05	0.11	
	Lalpor ...	...	0.18	...	...	...	...	...	1.12	0.75	...	0.37	...	0.70	...	...	...	...	1.45	0.24	...	
Maldah ...	Manda ...	...	...	0.50	...	...	...	...	...	0.80	0.50	0.12	1.40	...	0.20	...	...	...	0.50	0.14	...	
	Maldah ...	...	0.03	...	...	...	...	0.01	...	4.07	0.57	...	0.04	...	...	...	...	0.60	0.08	0.11	0.36	
	Chanchal...	...	0.19	...	0.18	0.07	...	...	...	3.20	0.65	0.17	0.20	...	...	...	...	0.05	0.21	...	0.81	
	Gajol ...	0.35	...	...	...	...	...	...	...	4.20	1.10	0.40	0.10	0.30	...	...	...	1.85	...	...	0.90	
Dinapore ...	Sibganj ...	1.50	...	...	...	...	0.62	...	...	1.87	1.67	...	1.75	...	...	...	0.40	...	0.61	1.42	...	
	Mohadebpore...	0.43	...	...	1.65	...	...	...	...	0.04	0.98	1.04	0.09	0.11	...	...	...	...	...	0.30	0.47	
	Churamon...	0.16	...	...	0.74	...	0.08	...	...	4.38	1.84	0.54	0.34	0.14	...	...	...	...	0.19	...	1.24	
	Raigunge...	0.48	...	0.40	1.02	...	...	...	...	3.35	0.70	...	1.71	...	...	...	...	...	0.55	1.12	...	
Rungpore ...	Dinapore...	3.10	...	1.04	3.55	...	...	...	...	1.81	0.31	0.40	2.15	0.04	...	...	...	...	0.45	...	0.99	
	Baloorhat...	1.06	...	...	1.74	...	...	...	...	0.23	1.26	1.54	...	2.20	0.31	0.78	...	...	0.15	0.26	0.11	
	Thakurgaon...	2.16	0.31	2.74	1.56	1.16	0.37	1.80	0.46	...	1.72	0.28	...	...	...	0.43	...	0.24	1.86	0.20	1.16	
	Bhawanigunge (Gyabanda)...	1.90	...	1.70	4.75	0.13	1.15	0.18	...	...	0.60	0.50	0.05	0.50	0.66	1.15	...	0.95	0.20	...	0.71	
Julpigoree ...	Rungpore...	0.85	0.06	2.61	3.75	1.57	1.10	0.42	0.85	1.60	0.92	0.02	2.81	0.21	0.30	0.03	...	0.28	0.21	...	0.12		
	Kurigram...	0.11	3.04	1.26	4.40	2.51	1.57	1.79	4.44	4.00	0.03	0.98	0.99	0.51	...	...	...	0.04	...	...	0.31	
	Bagdogra...	...	0.76	1.87	4.58	0.81	1.20	2.03	0.67	1.13	0.15	3.36	0.58	0.04	0.10	...	0.50	0.10	1.20	3.27	0.31		
	(Nilphamari)...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ulupore ...	0.75	...	3.11	3.75	...	0.84	0.48	1.16	1.12	...	...	2.64	0.46	...	...	1.16	...	...	...	0.36	
	Julpigoree...	0.82	0.07	0.63	3.12	3.95	1.65	5.15	2.00	2.81	1.26	1.77	0.09	1.79	0.03	1.96	...	0.45	0.47	5.49	0.15		
	Alipore Doar...	2.40	1.06	0.64	0.69	7.23	2.55	5.84	2.81	0.01	1.79	5.55	1.17	0.65	2.29	2.57	...	0.14	0.84	0.67	1.01		
	Falacotta...	1.05	0.08	1.72	0.48	5.03	3.35	4.02															

Bengal in June 1890—continued.

SI	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	District.	Station.	Meteorological division.
018	2.06	1.35	6.00	1.75	0.23	...	0.45	0.05	0.18	21	20.1	17.28	21.44	6.00	27.93	36.16	Patuakhally	Backerunge.	EAST BENGAL—continued.
023	1.55	2.89	4.77	1.45	0.94	...	0.20	...	0.46	21	18.8	17.94	15.98	4.77	26.41	29.01	Perozepore.		
029	0.68	0.85	6.25	0.83	0.67	...	0.10	...	...	18	21.3	18.34	16.51	6.25	30.95	31.75	Burrisal.
031	0.63	0.62	2.79	1.06	1.36	0.37	1.49	...	...	18	21.5	11.61	20.19	2.79	26.64	34.52	Bhola.
035	3.31	1.88	0.15	0.13	...	...	...	0.11	...	82	?	13.78	?	6.15	?	?	Gournaddi.
045	0.84	0.09	3.85	1.32	0.11	...	1.80	0.04	...	17	?	12.78	?	3.85	21.83	?	Bauphal.		
007	1.38	1.01	3.99	1.86	1.04	0.03	0.27	0.03	...	20	20.7	16.77	23.67	3.99	36.76	41.68	Noakholly	Noakholly.	
015	0.84	0.78	5.15	3.75	1.10	1.25	0.20	0.70	...	18	19.2	22.80	26.23	5.15	42.72	47.47	Fenny.		
010	2.15	3.25	5.15	0.10	0.90	2.50	0.50	...	...	18	?	27.68	?	6.15	43.24	?	Harishpore.
020	0.24	0.27	2.90	3.15	0.22	...	3.60	...	...	17	?	17.77	?	3.60	33.82	?	Ramganj.
030	1.00	1.68	2.85	0.57	11	18.1	7.62	13.00	2.85	22.41	29.94	Madaripore	Furzedpore.	
015	1.80	2.00	0.47	0.48	0.03	...	...	0.25	...	15	17.5	16.87	12.85	2.10	22.10	29.76	Furzedpore.
008	...	1.13	0.97	0.50	...	...	0.35	...	...	15	17.0	8.72	11.07	3.65	24.46	26.38	Goalundo.
010	1.10	0.62	1.04	1.35	...	2.20	3.00	16	18.0	13.80	16.17	3.00	33.80	35.87	Munshigunge.	Dacca.	
012	0.35	1.69	2.40	1.70	...	0.18	0.14	...	...	21	17.9	11.08	15.90	2.40	39.15	31.78	Dacca.
009	0.54	0.48	1.46	1.46	...	1.84	1.70	...	...	18	19.6	12.83	13.96	1.84	32.98	31.85	Narainigunge.
022	0.18	2.77	2.03	1.30	0.15	1.47	...	...	0.08	20	17.0	15.47	9.62	2.77	31.30	25.83	Manickgunge.
002	0.20	0.31	3.82	1.09	0.10	0.31	0.24	...	...	23	?	14.40	?	3.82	36.60	?	Joydehpore.
...	...	1.27	3.35	1.12	0.75	0.35	0.12	17	17.0	16.18	14.21	3.35	39.37	37.30	Agartola	Hill Tipperah.	
019	0.93	0.12	1.33	1.38	0.95	2.31	...	0.06	...	21	21.2	13.92	18.34	2.84	27.05	39.80	Comilla	Tipperah.	
...	1.12	1.42	2.96	1.63	...	...	0.96	0.03	0.10	119	19.6	15.39	17.21	2.96	32.57	34.85	Chandpore.
...	0.66	2.25	0.50	...	...	...	...	...	...	20	18.3	13.30	15.53	2.61	32.57	33.36	Brahmunberia.
021	0.20	0.25	1.72	2.35	1.03	1.61	1.36	...	...	22	?	14.87	?	2.35	27.80	?	Ramchandrapore.
...	...	0.10	0.50	...	...	0.55	...	...	...	16	?	9.88	?	1.30	46.02	?	Nasirnagar.
...	0.91	0.78	1.04	0.94	...	1.27	...	...	...	13	?	9.83	?	1.27	18.16	?	Daudkandi.
005	1.02	1.50	3.40	1.19	2.02	1.11	...	...	...	15	?	21.94	?	3.40	37.85	?	Kasba.
...	...	2.32	...	8.35	...	...	...	...	...	21	?	16.40	?	8.35	35.51	?	Laksham.
...	0.21	...	2.24	1.36	0.31	0.36	0.22	18	18.2	18.90	18.86	4.55	38.36	39.15	Kishoregunge.	Mymensingh.	
043	...	2.69	1.95	0.41	...	0.21	...	...	...	13	13.8	11.01	12.77	2.77	34.87	26.19	Atia (Tangail).
047	0.01	0.05	2.44	1.57	0.97	2.70	0.07	0.56	0.12	25	22.1	20.96	20.59	2.70	41.06	41.82	Mymensingh.		
013	1.11	0.48	1.27	7.12	1.03	0.50	...	0.31	...	20	16.0	22.80	15.24	7.12	42.65	30.38	Jamalsore.		
026	0.23	0.12	3.79	0.40	0.10	2.40	0.35	0.16	0.26	25	21.0	25.81	21.78	4.00	43.84	40.42	Netrokona.		
...	...	...	2.57	3.47	0.03	0.38	...	...	...	87	?	9.19	?	3.47	26.22	?	Subornakhally.
070	...	...	3.50	5.80	1.70	0.30	0.05	...	1.50	19	?	32.23	?	5.80	52.44	?	Durgapore.
032	0.12	0.21	0.54	4.65	0.22	0.54	0.10	...	...	21	?	18.07	?	4.65	39.28	?	Sherepore Town
...	...	0.30	6.15	...	3.20	0.05	...	...	...	14	?	17.59	?	6.15	36.67	?	Dewanganj.
017	0.80	0.93	0.65	0.62	...	0.20	0.05	17	17.0	11.33	11.54	3.81	19.58	24.75	Pubna		Pubna	NORTH BENGAL.
019	0.13	0.99	2.48	1.46	...	0.56	...	0.24	0.22	16	14.9	9.66	11.10	2.48	29.98	24.50	Serajgunge.		
042	...	0.39	1.54	7.09	1.18	0.45	...	...	0.17	16	14.8	16.12	11.71	7.09	24.01	24.45	Sherpore
004	...	0.39	0.27	3.27	0.90	0.38	...	0.12	0.06	16	17.3	12.15	12.64	3.27	29.04	24.84	Nowkhilla.		
030	...	0.24	0.78	4.18	0.08	2.15	...	0.58	...	17	17.9	13.80	15.99	4.18	23.38	29.43	Bogra.		
027	0.30	0.16	2.56	4.10	0.80	0.50	...	...	...	20	12.0	23.27	11.03	4.10	34.09	22.02	Panchbibi.
001	0.13	0.13	2.87	6.07	...	0.29	...	0.25	0.50	16	15.6	17.03	10.51	6.07	24.21	20.24	Beaulah		
075	0.10	0.33	2.70	7.62	0.02	2.34	...	0.30	...	19	11.6	21.55	9.98	7.62	37.44	21.36	Natore.		
...	0.57	4.91	1.89	0.19	0.76	...	...	0.06	...	19	15.0	15.64	13.69	1.91	23.25	22.01	Naogaon.
...	0.46	1.87	1.16	0.99	...	...	...	0.02	...	12	?	8.41	?	1.87	17.45	?	Lalpara.
...	...	1.50	2.30	0.50	0.30	...	...	...	...	12	?	8.56	?	2.30	12.00	?	Manda.
077	1.14	0.44	0.94	0.33	0.29	0.13	0.13	0.22	0.34	19	15.3	11.59	9.83	4.07	16.99	17.27	Maldah	Maldah.	
011	0.30	0.32	0.13	1.83	0.10	...	0.44	0.08	...	19	15.4	11.02	11.65	3.20	15.89	19.08	Chanchal.		
038	0.15	0.55	0.24	0.70	...	...	0.70	0.90	0.66	16	?	13.48	?	4.20	17.35	?	Gajol.
033	0.16	1.25	0.78	0.91	0.04	0.14	...	0.73	0.08	18	?	13.75	?	1.87	20.86	?	Sibganj.		
026	0.40	1.43	3.70	1.00	0.61	...	0.08	0.42	...	17	14.9	13.91	12.14	3.70	20.76	21.15	Mohadehpore.	Dinapore.	
...	0.16	0.90	0.19	2.73	0.13	...	3.45	0.17	...	17	12.5	18.08	12.44	4.38	23.69	19.18	Churamon.		
030	0.38	0.59	0.15	3.25	...	0.26	1.92	1.03	...	16	14.5	17.02	13.74	3.55	22.60	22.94	Raigunge.		
017	0.73	0.11	0.65	0.98	0.14	...	1.18	...	...	17	18.0	17.81	16.84	3.58	33.30	28.08	Dinapore.
031	0.27	0.24	1.21	1.64	0.28	0.36	...	...	...	20	14.3	15.81	12.84	2.20	23.73	21.74	Balooghata.
039	...	...	1.40	4.69	2.28	2.33	2.42	...	...	21	?	30.66	?	4.69	41.84	?	Thakurgaon.
030	0.30	...	0.20	5.50	1.30	1.04	...	0.10	...	22	14.6	23.78	15.69	5.50	40.61	29.84	Bhawanisunge (Gyabanda).		
073	0.18	...	0.65	3.23	1.10	0.19	0.94	...	...	25	18.0	25.09	21.03	3.75	36.93	36.73	Bungpore.
140	...	0.20	2.56	3.64	0.03	0.46	...	0.06	...	23	17.9	31.01	24.01	4.49	44.12	45.13	Kurigram.		
036	...	0.96	2.30	0.85	...	1.72	...	...	...	24	19.5	32.16	25.33	4.58	49.15	42.83	Baidogra.
040	...	...	0.75	3.61	0.26	0.68	...	...	...	16	?	21.65	?	3.75	42.39	?	(Nilphamari.)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ulipore.
...	0.29	0.18	2.42	3.36	0.80	0.23	1.37	0.05	0.04	28	21.0	40.82	29.12	5.49	54.71	47.29	Julpigoree	Julpigoree.	
...	0.16	0.59	2.41	2.18	0.65	1.41	7.92	0.02	...	27	?	55.30	?	7.92	71.03	?	Alipore Doar.		
...	0.12	0.39	0.43	1.85	0.16	2.19	3.20	...	...	26	?	44.77	?	7.55	57.68	?	Falacotta.
035	...	0.33	6.47	2.33	0.22	2.00	...	0.07	...	24	?	32.63	?	4.80	47.78	?	Debiganj.		
...	0.18	0.46	0.91	4.38	0.49	0.92	2.35	0.41	0.03	28	?	29.39	?	4.38	40.81	?	Bhogtpore (Nagrakatta.)		
035	0.04	0.21	1.89	2.06	0.21	1.63	3.86	0.03											

Table of Rainfall recorded at Stations:

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
NORTH BEHAR —contd.	Durbhunga ...	Tajpore ...	...	...	...	...	...	...	...	0'30	...	...	...	...	...	...	...	...	...	0'64	...	...
		Durbhunga ...	...	...	...	...	...	...	0'02	1'45	0'40	...	1'23	...	...	1'03	...	...	...	0'11	0'08	...	
		Madhubani ...	...	...	...	...	...	0'09	...	1'12	2'11	...	0'16	...	...	...	...	...	...	...	0'72	...	
		Bahera ...	...	...	...	...	...	...	...	0'36	0'54	...	...	0'13	...	0'31	...	...	...	...	...	...
	Mozufferpore	Roshera ...	...	...	...	...	...	0'60	...	0'29	0'10	...	...	...	...	...	...	...	...	...	1'50	...	
		Sitamarhi ...	...	...	...	0'06	...	...	...	1'67	0'78	0'02	...	...	...	0'06	...	...	0'21	...	...	0'35	...
		Mozufferpore ...	...	...	...	...	...	...	...	2'04	0'08	...	...	...	0'06	...	...	...	...	...	...	...	...
		Hajipur ...	...	...	...	...	...	...	...	0'02	0'41	...	...	...	0'25	...	...	...	...	0'03	...	...	...
	Chumparun ...	Paru ...	...	...	...	...	...	...	...	0'97	0'05	...	...	...	...	0'80	...	...	...	...	...	...	...
		Mahua ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3'00	...	...	...	...	0'93	...
		Siuhar ...	...	...	...	...	...	...	...	1'60	0'30	...	...	...	...	0'70	...	...	...	...	...	...	...
		Pupri ...	...	0'30	...	...	...	...	...	1'40	1'06	1'40	...	...	...	0'14	...	...	...	...	...	...	...
Sarun ...	Motihari ...	...	...	...	...	...	...	...	1'64	0'62	...	...	...	...	0'57	0'91	0'33	...	...	...	...	...
	Bettiah ...	...	...	...	...	...	...	...	2'56	0'07	...	...	...	...	0'29	1'08	...	...	...	...	0'81	...	
	Bagaha ...	...	0'15	0'84	...	...	...	...	0'12	1'56	0'15	...	...	...	...	0'07	1'52	...	1'68	1'02	...	...
	Burhura ...	...	...	...	...	...	...	...	1'41	...	...	...	...	...	0'32	0'63	1'70	...	...	...	0'05	...	
SOUTH BEHAR	Shahabad ...	Gopalgunge ...	...	...	...	...	...	...	...	0'75	...	...	...	...	...	...	0'25	...	0'15	0'00	...	...	...
		Sewan ...	...	...	...	...	...	...	0'48	0'08	...	...	...	...	...	0'58	...	...	0'64	3'13	...	...	...
		Chupra ...	...	...	...	...	...	...	0'10	0'12	0'09	...	...	...	0'71	0'47	...	...	...	...	...	0'10	...
		Buxar ...	...	...	...	...	...	...	...	0'12	...	...	...	...	...	0'30	0'62	...	...	...	...	0'48	...
	Gya ...	Dehroo ...	...	...	...	...	...	...	...	0'30	...	...	...	...	...	0'40	...	...	...	...	0'76	...	...
		Bhubooh	0'25	0'10	0'08	0'35	...
		Sasseram ...	...	...	...	0'02	0'46	...	...	0'17	...	...	...	...	...	0'41	...	...	...	...	...	...	...
		Arrah ...	...	...	...	...	...	...	...	0'04	...	0'15	...	...	...	0'14	...	...	...	...	...	...	...
	Patna ...	Mohaniah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'70	...	...	...	...	...	2'10	...
		Aurungabad ...	...	...	...	...	...	...	...	0'32	...	...	...	...	...	0'12	...	0'17	...	...	...	...	...
		Gya	0'77	...	1'47	...	0'66	0'03	...
		Nowadah	0'10	0'06	...	0'10	0'15
Monghyr ...	Jehanabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'60	...	...	...	...	...	...	...
	Arwal ...	...	...	...	...	...	...	...	...	...	0'04	...	...	...	0'85	...	...	...	...	...	...	...
	Daudnagar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'50	...	...	...	...	...	...
	Sheerghatti ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'03	0'46	...	...	...	...	...	...
South Bhagul-pore.	Rajauli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'68	...	...	...	...	...	...	...
	Pakri Bara-wan.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Patna ...	...	...	...	...	...	...	...	...	0'28	...	...	...	...	0'25	...	...	...	0'12	...	...	...
	Dinapore ...	...	...	...	...	...	...	...	...	0'28	...	...	...	...	0'41	...	...	...	...	...	...	...
South Bhagul-pore.	Behar ...	...	...	...	...	...	...	...	...	0'10	...	...	...	...	0'35	...	...	...	0'62	...	...	...
	Barrh ...	...	...	...	...	...	...	...	...	0'65	...	...	...	...	0'30	...	...	...	...	...	...	...
	Bickram ...	...	...	...	...	...	...	...	0'40	...	0'35	...	...	...	0'03	...	...	...	0'70	...	...	...
	Hilsa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr ...	Begoo-serai ...	...	...	...	0'15	...	...	...	0'04	0'15	1'05	0'05	...	...	0'04	...	...	...	...	...	...	...
	Monghyr ...	...	...	...	...	...	...	...	...	0'20	0'20	1'17	...	...	...	...	...	...	...	...	...	...
	Jamui ...	...	...	...	...	...	...	...	...	...	...	0'36	0'24	...	1'79	...	...	...	...	...	...	...
	Gopri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Bhagul-pore.	Sheikpura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'80	...	...	...	...	...	...	...
	Bhagulpore ...	...	...	...	...	...	...	...	...	0'05	0'25	0'81	0'07	...	...	...	...	...	0'13	...	...	0'30	...
	Banka ...	...	0'34	...	...	...	...	...	...	...	...	0'62	...	...	0'19	...	...	...	...	...	...	...
	Kolgaon ...	...	...	...	...	...	...	...	...	...	1'00	0'32	...	...	...	...	...	...	...	...	...	0'72	...
Sonthal Per-gunnahs.	Bongaon ...	...	...	...	...	...	...	...	...	0'73	2'42	0'43	...	...	...	...	...	...	...	...	...	...	...
	Rajmehal ...	...	...	...	...	...	...	...	...	3'05	...	1'91	...	...	0'57	...	...	...	...	...	...	0'09	...
	Godda ...	...	0'39	...	...	...	...	...	...	...	0'08	1'80	...	0'02	0'22	...	...	...	...	...	...	...	...
	Pakour ...	...	1'43	...	...	...	...	0'11	0'39	...	1'15	0'66	...	0'35	0'85	0'34	...	...	...	...	...	0'01	...
Monghyr ...	Nya Doo-mka ...	...	0'65	...	0'05	...	0'38	...	...	...	...	0'56	...	0'01	0'28	0'01	...	...	...	...	...	...	...
	Deoghur ...	...	...	0'12	...	...	...	...	...	...	...	0'08	...	0'08	0'21	...	...	...	...	...	...	...	...
	Jamtara ...	...	0'03	0'26	...	...	0'03	...	...	...	...	...	...	...	0'58	...	...	...	...	...	...	...
	Mohagama ...	...	0'25	...	...	...	...	...	...	...	...	0'72	...	...	...	...	...	...	...	...	...	2'15	...
MUTIA NAG-PUR.	Hazaribagh ...	Nankhat ...	...	...	...	...	...	0'31	...	...	...	...	...	...	0'65	...	...	...	...	...	...	...	...
		Pachamba (Gridi) ...	...	...	...	...	...	...	...	...	0'11	...	0'81	0'03	0'11	...	0'28	...	...	...	...	...	...
		Hazaribagh ...	...	...	0'02	0'11	...	0'04	0'04	...	...	...	...	0'23	0'30	...	0'25	...	...	...	...	0'02	...
		Semtagurah	0'76	...
	Lohardugga...	Mahudi Hills
		Jhoomrah Hills
		Barhi	0'20	2'20	0'80	0'60
		Chatra ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'27	...	...	...	...	...	...	...
	Singbhoom ...	Karagdeha	0'07	0'30	0'35
		Ramghar
		Lohardugga
		Ranchi	0'17	0'45	0'64	1'21
Manbhoom ...	Palamow ...	...	...	...	...	...	...	...	...	...	0'43	0'38	...	...	0'08	0'20	0'18	...	...	...	...	...	...
	Silli ...	...	...	...	...	...	...	...	...	...	...	...	...	...	0'50	...	...	...	...	...	...	...	...
	Bolumat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hoseinabad ...	...	...	0'04	...	0'02	0'05	...	...	...	...	...	...	...	1'50	...	...	...	...	...	...	...	...
Singbhoom ...	Garwah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chyebassa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chakradhar-pore.	...	0'06	...	...	...	...	...	...	...	...	0'11	0'03	...	1'67	0'05	...	...	...	...	...	...	...
	Chatsila ...	...	0'20	...	0'10	...	...	...	...	...	...	0'15	...	...	0'10	...	0'15	0'50	...	0'10	...	...	...
Manbhoom ...	Baharagura ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1'12	2'50	...	0'13	...	...	...	...	...
	Purulia ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Gobindpore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raghunath-pore.	...	0'54	...	...	...	...	0'31	...	...	...	0'29	0'10	...	...	0'18	1'18	...	...	...	...	...	...
Manbhoom ...	Barrabhoom ...	...	0'03	...	...	...	0'08	0'03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jhaid ...	...	0'19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	

Bengal for the month of June 1890—concluded.

21	22	23	24	25	26	27	28	29	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 30th June 1890.	Average rainfall from 1st January up to 30th June.	Station.	District.	Meteorological division
0.58	2.02	0.22	0.02	2.56	1.02	...	0.82	...	0.18	11	8.7	8.78	7.46	2.56	10.47	11.30	Tajpore	Durbhunga	NORTH BEHAR— concl.
0.28	0.10	0.35	0.59	1.54	1.53	0.02	0.55	0.30	0.48	18	10.3	11.30	7.84	1.54	13.06	12.39	Durbhunga.	...	
0.17	0.40	0.64	0.16	1.78	1.37	0.02	3.00	0.61	0.11	14	10.7	12.63	8.45	3.00	16.78	14.06	Madhubani.	...	
0.22	0.70	1.56	0.10	1.00	1.72	1.15	0.74	1.10	...	14	?	12.63	?	2.90	15.51	?	Bahera.	...	
0.90	0.90	0.40	1.30	0.20	1.50	1.00	0.10	0.40	...	14	?	10.60	?	1.60	12.35	?	Roshera.	...	Muzafferpore.
0.10	0.05	0.32	0.20	1.60	0.48	0.22	0.53	0.77	0.68	17	9.1	8.37	7.84	1.67	12.10	13.14	Sitamarhi	...	
0.63	...	1.02	0.20	2.53	0.77	...	0.63	0.07	...	12	8.9	9.12	6.81	2.53	10.76	11.54	Mozufferpore.	...	
0.19	0.21	0.61	0.13	3.90	1.07	0.13	0.17	...	...	13	8.8	7.58	6.54	3.90	11.64	10.25	Hajipore.	...
0.46	0.60	0.76	0.14	3.25	1.03	0.86	...	11	?	9.62	?	3.25	11.47	?	Paru.	...	Chumpanun.
...	...	0.40	0.15	4.35	1.20	...	...	0.30	...	8	?	10.83	?	4.35	13.36	?	Mahua.	...
0.30	...	0.45	0.45	3.70	0.90	...	1.35	0.90	...	11	?	11.25	?	3.70	15.00	?	Sihar.	...	
0.16	0.30	0.88	0.27	4.27	1.20	...	1.00	0.72	...	14	?	11.69	?	2.27	14.33	?	Fupri.	...	
0.11	0.29	...	0.24	4.57	1.24	0.09	0.55	...	0.11	14	10.2	11.40	8.25	4.57	19.31	12.59	Motihari	...	Sarun.
0.12	...	...	0.32	4.00	1.29	...	1.09	0.94	0.40	13	8.8	13.80	8.35	4.00	15.80	13.22	Bettiah.	...
0.22	...	0.28	0.14	1.31	1.45	2.75	1.04	1.08	0.09	19	?	16.67	?	2.75	19.08	?	Bagaha.	...	
0.34	0.17	...	0.41	2.30	2.00	0.03	0.72	3.94	0.24	15	?	14.36	?	3.94	17.57	?	Burhurwa.	...	
0.20	0.70	3.60	0.70	0.20	1.30	0.15	...	12	9.5	8.85	6.63	3.60	10.74	10.79	Gopalgunge	...	Shahabad
0.05	...	2.12	1.51	2.91	...	0.22	...	0.14	0.50	13	8.7	12.09	6.66	3.13	14.63	10.19	Sewan.	...	
0.07	0.18	...	1.90	3.57	1.57	...	0.21	...	0.33	14	8.2	10.06	6.17	3.57	13.13	9.51	Chuprah.	...	
1.60	0.18	0.91	0.48	1.50	0.35	0.09	0.76	0.06	1.90	15	8.8	9.64	4.76	1.90	11.63	7.29	Buxar	...	
1.56	0.02	2.93	0.95	0.07	0.08	1.17	0.17	...	0.37	18	8.0	10.32	4.65	2.93	10.72	7.42	Dehree.	...	SOUTH BEHAR.
0.44	...	0.70	0.70	1.10	0.10	0.10	...	1.98	...	12	7.6	9.76	5.06	3.90	10.21	8.03	Bhubooh.	...	
1.00	0.10	2.59	0.39	0.29	...	0.10	0.28	...	0.50	13	9.2	9.93	5.00	3.62	11.32	7.67	Sassernan.	...	
1.63	0.07	1.80	2.62	1.95	1.85	...	0.12	0.17	0.96	13	9.6	11.94	6.45	2.62	13.61	10.34	Arrah.	...	
...	1.30	0.50	1.30	...	6	?	7.00	?	2.10	7.23	?	Mohaniah.	...	Gya.
0.25	2.47	3.23	1.05	0.05	0.43	...	0.45	...	0.11	12	7.9	9.73	5.21	3.23	10.43	8.40	Aurangabad	...	
0.26	0.04	3.08	3.94	1.26	0.01	...	0.01	...	0.04	11	10.1	11.15	6.13	3.94	12.40	9.35	Gya.	...	
0.06	0.30	5.15	1.65	1.35	1.23	0.97	1.52	...	0.70	13	7.8	16.67	5.36	5.15	17.98	9.20	Nowadah.	...	
3.10	0.15	0.68	5.10	4.03	0.37	...	0.42	0.62	0.02	14	7.4	15.15	4.91	5.10	17.87	8.18	Jehanabad.	...	Patna.
0.30	3.30	...	...	...	...	3.50	...	...	...	6	?	9.24	?	3.50	11.04	?	Arwal.	...
0.29	0.40	0.50	...	0.30	...	...	...	...	0.20	7	?	3.74	?	0.99	4.01	?	Daudnagar.	...
...	0.56	1.50	1.56	0.56	...	...	0.20	...	0.61	8	?	6.99	?	1.62	6.99	?	Sheerghati.	...
1.00	0.30	2.36	4.35	1.45	0.13	0.55	0.32	0.35	0.45	13	?	13.04	?	4.35	13.06	?	Rajauli.	...	Monghyr.
...	2.40	1.00	5.10	2.35	1.30	0.85	2.80	...	...	9	?	19.13	?	5.10	9.48	?	Pakri Bara-wan.	...
0.14	0.06	1.62	0.50	2.26	0.89	0.05	0.18	1.00	...	13	10.2	7.80	6.72	2.26	11.30	10.23	Patna	...	
0.55	0.05	0.72	2.76	0.35	0.84	0.45	0.80	...	...	11	8.0	7.56	6.40	2.76	10.85	9.35	Dinapore.	...
0.80	0.77	0.06	5.80	1.22	...	0.07	0.09	11	9.3	11.24	6.17	5.80	12.02	10.08	Behar.	...	South Bhagulpore.
0.60	...	0.50	3.00	0.80	...	0.10	0.60	...	...	9	8.8	7.25	4.88	3.00	9.38	8.56	Barrh.	...
2.50	1.08	0.94	3.90	1.70	0.82	...	0.39	...	0.24	13	?	12.82	?	3.30	14.85	?	Bickram.	...	
...	0.13	3.10	5.17	1.13	0.70	0.20	2.56	...	...	8	?	14.42	?	5.17	17.19	?	Hilsa.	...
0.02	0.36	0.31	0.10	3.00	0.45	...	1.95	0.70	0.10	16	9.6	10.09	6.01	3.00	13.25	10.05	Begooesrai	...	Monghyr.
1.60	4.42	2.92	0.18	0.35	1.08	0.02	0.25	0.38	...	13	10.7	14.50	6.50	4.42	18.79	10.68	Monghyr.	...	
0.54	0.79	2.48	2.47	2.61	1.60	0.65	1.36	...	...	12	9.8	18.41	6.36	4.52	19.71	10.72	Jamui.	...
1.60	...	2.34	...	...	3.52	...	...	...	0.81	6	?	13.11	?	3.78	17.50	?	Gogri.	...
1.90	...	0.65	2.55	3.00	0.74	0.20	1.82	...	0.10	10	?	14.80	?	3.13	15.19	?	Sheikpura	...	South Bhagulpore.
0.83	0.04	1.50	0.12	1.14	2.80	0.14	0.18	0.14	0.25	18	12.1	10.00	8.14	2.80	15.43	13.13	Bhagulpore	...	
1.00	0.10	0.87	1.05	1.06	1.29	...	0.33	0.15	0.88	13	10.8	9.29	7.90	1.42	16.19	13.06	Banka.	...	
0.78	0.74	2.75	0.31	2.40	0.90	...	3.19	0.21	0.38	13	?	14.82	?	3.19	18.73	?	Kolgong.	...	
...	1.80	1.60	0.34	...	0.60	0.94	1.73	0.84	...	10	?	11.30	?	2.42	14.04	?	Bangaon.	...	Sonthal Per-gunnahs.
0.58	0.06	0.58	0.82	0.98	0.57	0.15	1.36	2.07	...	16	11.3	13.89	10.02	3.05	17.80	16.97	Rajmehal	...	
1.30	0.35	1.25	1.20	1.05	...	0.64	1.10	0.25	...	14	10.9	10.81	6.70	1.80	16.29	12.03	Godda.	...	
0.28	0.09	2.47	1.85	1.69	0.78	2.78	1.35	3.39	0.49	21	14.4	22.70	10.60	3.39	30.10	17.59	Pakour.	...	
1.07	0.07	3.25	6.11	0.40	0.12	0.14	0.14	0.63	0.11	18	15.3	14.99	8.79	6.11	18.68	15.42	Nya Doonka.	...	Hazaribagh
0.40	1.09	0.81	3.95	0.81	...	0.60	0.80	...	0.81	13	13.1	10.65	8.12	3.95	13.38	13.67	Deoghur.	...	
0.62	1.38	8.59	8.05	0.12	...	...	0.19	...	0.21	12	14.2	20.61	7.90	8.05	23.97	13.62	Jamtara.	...
2.25	1.83	1.38	...	2.55	...	0.24	1.56	...	...	10	?	14.60	?	2.55	16.61	?	Mohagama.	...
0.75	0.29	1.07	1.25	0.12	...	0.76	0.12	...	0.17	12	?	6.07	?	1.25	9.02	?	Nanihat.	...	CHUTIA NAGPUR.
0.92	0.06	5.13	0.52	1.36	...	0.30	0.58	0.56	0.20	16	14.2	18.20	7.84	6.52	20.07	12.46	Pachamha	...	
0.61	0.03	1.21	2.69	0.82	...	0.08	0.10	0.07	1.12	18	15.2	8.02	7.94	2.69	10.39	11.99	(Giridi).	...	
0.05	0.70	1.92	1.40	...	...	0.55	0.18	0.57	1.15	12	11.4	8.06	7.70	1.92	9.87	12.79	Hazaribagh.	...
0.01	0.21	0.84	1.36	0.22	10	?	10.0	?	Semtagurah.	...	Lohardugga.
0.80	0.30	2.50	2.00	...	...	0.60	0.10	...	1.70	13	11.6	14.30	10.33	2.50	15.10	14.41	Mahudi Hills.	...
0.83	0.76	...	2.86	0.															

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF JUNE 1890.

DURING the first half of June ordinary hot-weather conditions usually prevail over the greater part of the province, the chief features being clear skies with low humidity and high temperature. But the moist current from the Bay of Bengal beginning in Burmah some time in May and passing northwards is deflected by the Assam hills, so that in the north-east corner, and sometimes in the northern part of East Bengal, heavy rain continues to fall from the beginning of June. The dry hot weather remains unchanged till the commencement of disturbed weather in the Bay, when somewhat suddenly the sky becomes cloudy, and hot moist weather is general in the lower districts, till the disturbance, crossing the coast, moves in a north-westerly direction, giving heavy rain along its course. After its passage the rainfall area gradually extends, and rain becomes general in all districts. Thus as a rule the change from the hot weather to the rains is clearly defined by the commencement of the depression in the north of the Bay.

During the present year heavy rain began to fall in Burmah very early in May, and it will be remembered that during the first two weeks of May intensely hot weather prevailed in Bengal till near the end of the second week, after which cloudy weather with high humidity, low temperature, and scattered showers prevailed till the end of the month. The weather during the first two weeks of June has been similar to that of the latter half of May. Scattered rain fell except in East and North Bengal, where heavy and continuous rain was reported, especially from the former. Pressure was low over Behar, and a steady wind circulation continued for some time, velocity rising at times as the differences of pressure increased over the province. But notwithstanding the cloudy weather, rainfall was generally below the normal except in North Bengal, and though a moist current was undoubtedly blowing over Bengal, heavy rain did not set in till about the end of the third week. During the first week a shallow depression formed in Behar, pressure falling briskly on the 4th, and rapidly on the 5th, in the northern districts, in consequence of which heavy rain fell, not only in North Bengal, but also in North Behar, from the 6th to the 8th, and heavier and more general rain fell in the south-eastern districts. In the western districts, over which westerly winds were blowing from the Central Provinces, the sky was clear with very high temperature, excess in South Behar being 4° and in Chutia Nagpur 2.4° , so that differences of pressure as well as of temperature were large from east to west, and conditions were very favourable for strong easterly winds. After rain commenced to fall in Behar, temperature fell very rapidly at western stations, the largest falls on the 7th being 16° at Dehree, 15.6° at Gya, and 11.5 at Hazaribagh, and from being 4° in excess for the first week, mean temperature fell to 3° below the normal for the second week in South Behar. Rainfall continued to be considerably below the normal in all the southern districts except Orissa, where general rather heavy rain fell on the 7th and 10th, and scattered showers on the 8th and 11th. From the fact that rainfall during this week was largely above the normal in the northern districts, while over a strip of country lying between Orissa and these districts there was considerable defect, this heavier rain in Orissa was probably due to the disturbed conditions which at that time were general over the greater part of the peninsula. From the 13th to 17th only scattered rain fell in the north and east, skies clearing and temperature rising slowly in all districts, but about the 17th pressure began to fall in the north-west corner of the Bay, and the first depression of the season formed.

Shallow depression from 17th to 20th—A brisk fall of pressure commenced in Orissa and the north-west corner of the Bay on the 17th, and the low-pressure area became more distinct on the 18th, when a narrow trough of low pressure ran from the head of the Bay in the usual north-westerly direction. The intensification of the depression was accompanied by a slight deepening along the length of the trough, while on the 19th there was considerable defect and steep gradients to the south-east behind the centre. After remaining two days close to the Orissa coast, the depression moved over Orissa and Chutia Nagpur, where it filled up on the 20th. The influence of the depression was not wide, light cyclonic winds blowing in its near neighbourhood, while comparatively fine weather prevailed in the north and east of the province. Fairly heavy general rain fell in Orissa on the 18th, in Orissa and South-West Bengal on the 19th, and in all districts on the 20th. Immediately after the filling up of this shallow depression in Chutia Nagpur, and before the unsettled conditions resulting therefrom had passed away, a second depression began to form over the eastern part of South-West Bengal. The combined influence of the two depressions, that is, the after-effects of the first being intensified during the formation of the second, caused very stormy weather with abnormally heavy rain in all parts of Bengal.

Second depression from 21st to 24th.—On the 20th easterly winds were blowing over the whole province except in Orissa, and these directions remained unchanged on the 21st, but velocity was diminishing rapidly. On the 22nd westerly winds had set in over South Behar, Chutia Nagpur, and South-West Bengal. Pressure at first fell briskly, the fall becoming more rapid on the 22nd, when the area of lowest pressure extended from the head of the Bay to Mymensingh and as far east as Silchar. The depression was therefore well to the east, and winds were cyclonic over the whole of Bengal. Heavy rain had begun to

fall, Midnapore reporting 8 inches, and all the southern stations from Calcutta eastwards from 2 to 4 inches. On the following day the depression had moved nearly due west, the centre of lowest pressure and of the cyclonic circulation being between Berhampore and Burdwan. A very perfect circulation obtained with very strong winds at the head of the Bay and in Lower Bengal. Rainfall was heavier than on the 22nd at all stations to the south of the centre, Jessore and Akyab reporting 10, Raneegunge and Krishnagar 8, Burdwan 7, and several other stations from 3 to 6 inches. Wind velocity averaged more than 30 miles an hour for the day previous to 8 a.m. on the 23rd, at which hour it was 36 miles at Saugor Island and 40 miles an hour at Pooree. Up till 8 a.m. on the 24th the stormy weather intensified, the depression moving in a north-westerly direction, but it would appear that it broke up, one portion being near Allahabad and the other near Purneah and Bhagulpore when observations were taken on the 24th. Pressure at Purneah was then 29.344 inches, and at Bhagulpore 29.349 inches, defect at these two stations exceeding a quarter of an inch, while gradients were steep over the province and the Bay, the difference between Purneah and Tavoy exceeding .6 inch. The average wind velocity at Saugor Island rose to 42 miles an hour, and very strong winds were blowing at all inland stations except those in the extreme north. Heavy rain continued in the southern districts, but in North Behar and the greater part of North Bengal comparatively small amounts were received. The depression had filled up on the 25th, and after that ordinary monsoon weather prevailed in Bengal for some days.

The influence of the depression practically ceased on the 25th, and on the 28th pressure began to fall again in the north-west corner of the Bay and the adjacent districts. The low-pressure area which then began to form developed slowly on the 29th and 30th without much change of position, so that the description of this storm belongs to the meteorology of the month of July. It was not accompanied by heavy rain except in the immediate neighbourhood of the centre, and passed in a westerly direction over False Point into Central India during the night of the 1st July, but it was peculiar in being followed by rapid and large atmospheric oscillations, the waves passing from east to west across Bengal and the northern half of the Bay. While it retained its position at the head of the Bay, moderately calm weather with light rain prevailed at inland stations.

As the only means of comparing the strength of the monsoon in different years is by means of the wind velocity, the accompanying table has been prepared to show the average wind velocity in June at the coast stations and at a few a short distance inland. It will be seen that the average for the present month is normal or below the normal at the eastern stations, but is considerably above the normal in the north-west corner of the Bay. The only part of Bengal where rainfall is below the normal is that contiguous to the north-east corner of the Bay, so that both wind force and actual rainfall bear out that, so far, a weak monsoon current has been blowing on the east coast, but that in the west of the Bay it has been stronger than usual:—

STATIONS.			Actual average wind velocity in June 1890.	Normal wind velocity in June.	Variation of actual for June 1890 from normal.
			Miles per day.	Miles per day.	
Diamond Island	...	...	186	207	-21
Akyab	...	...	100	97	+3
Chittagong	...	...	154	152	+2
Dacca	...	...	200	152	+48
Jessore	...	...	94	117	-23
Calcutta	...	...	145	141	+4
Saugor Island	...	...	466	438	+28
Cuttack	...	...	97	97	0
False Point	...	...	327	309	+18
Gopalpur	...	...	389	314	+75

Pressure—Was rising in the early part of June, but after the first three days a rapid fall set in in the northern districts, resulting in a depression over Behar. The most rapid fall was .17 inch at Julpigoree and Dhubri, and defect was .15 inch in South Behar, from which it gradually diminished towards the south till it had almost vanished at the head of the Bay. During the second week it was generally in excess by variable amounts ranging up to .06 inch, the relatively higher pressure being in Orissa, South-West Bengal, the Sunderbans, and Singbhoon. During the third week pressure continued high in all districts except Orissa and Chutia Nagpur, where the formation of the depression caused somewhat rapid changes. These were of no importance till the 18th, when a brisk fall commenced at Orissa stations and continuing on the 19th gave defect of .2 inch at False Point and .15 inch at the other stations. On the 20th the depression was over Chutia Nagpur and slightly more diffused, defect being .15

inch at Ranchee only. By the following day it had filled up. Gradients were very steep to the south-east of the depression, the difference between False Point and Tavoy at one time being half an inch. While the second depression was moving over the western districts, changes were large, defect near the centre being $\cdot 25$ inch, and the rise after the passage of the centre being at some stations about a third of an inch. On the 25th the rise was very rapid over the whole province. The means for the whole month are very nearly normal, differences being generally under a hundredth of an inch.

Temperature—During the first week was high in the western districts and gradually fell towards the east, mean excess in South Behar being 4° , and defect in Assam 2.7° . In the second week it fell rapidly, especially in the western districts, where there was defect ranging up to 4.6° in North Behar. From being 4° above it fell to 3° below the normal in South Behar. Differences from the normal were much smaller for some days in the middle of the month, but on the occasion of the unsettled conditions towards the end of the month very cool weather prevailed, defect in Chutia Nagpur being 4.6° , in South Behar 3.9° , and in South-West Bengal 3.2° . Mean temperature for the month is normal in East Bengal, 4° below in North Bengal, 5° in South Behar, about 1° in Orissa, South-West Bengal and Assam, 1.6° in North Behar, and 1.9° in Chutia Nagpur. The highest temperature in South Behar was 110.6° , in South-West Bengal and North Behar slightly above 104° , and in Orissa and Chutia Nagpur above 103° , while in the other districts it was always under 100° .

Rainfall—Was generally deficient, except in North Bengal, during the early part of the month, but between the 20th and 24th unusually heavy rain fell in all districts with the result that the falls for the whole month are above the normal over the whole province except in the south-east corner, including the Sunderbuns, Chittagong, and Tipperah. The falls during the week beginning on the 20th expressed as percentages of the normal for each district give—South Behar 332, South-West Bengal 330, Chutia Nagpur 280, East Bengal 203, North Behar 192, North Bengal 128, and Orissa 74. Some of the heaviest falls in twenty-four hours during these days were—Jessore 9.9, Mankur 9.7, Jamtara and Jhalda 8.6, Jehanabad 8.4, Culna and Krishnagar 8.2, and Raneeunge 8 inches on the 23rd. On the 24th falls were lighter, generally under 4 inches, but Chittagong reported 9.3 and a few subdivisional stations in East Bengal 6 inches.

The falls for the month are very heavy in the neighbourhood of the Assam hills, and especially in the north-east corner of the province, Alipore Duar receiving 55, Cooch Behar 48, Mickilgunge 47, Ballacatta 45, Matabhanga and Buxa 44, Julpigoree and Dinhatta nearly 41 inches. Amounts decrease rapidly towards the south, only a few stations in that neighbourhood reporting more than 20 inches. Over the rest of the province falls are between 10 and 20 inches except in Chutia Nagpur, where they are generally about 8 inches. Over a strip of country stretching from the Hooghly district in a north-westerly direction, and including the western districts of South-West Bengal and part of South Behar along the course taken by the centre of the depression which began to form in the centre of Bengal about the 20th, relatively very heavy falls were received, the actual falls being between 15 and 20 inches, and in some cases above the latter amount. In the Sunderbuns and Chittagong and Tipperah falls were generally between 15 and 20 inches, and in the Chittagong Hill Tracts under 15 inches, but 34 inches fell at Cox's Bazar and 27 at Hurrishpore.

In the north-east districts excess was generally over 10 inches, the largest difference from the normal being 19.6 inches at Mickilgunge. Along the course taken by the centre of the depression excess amounts of about 10 inches are also recorded, these being chiefly in Burdwan, Bankoora, Rajshahye, Gya, Monghyr, and the Sonthal Pergunnahs. In the other districts, except Chutia Nagpur and the south-east corner, falls are from three to four inches above the normal, but small areas of deficient rainfall occur in the following districts:—Cuttack, Midnapore, Pubna, Bogra, and Maldah, the differences, however, being generally small. In Chutia Nagpur the fall is very nearly normal, and in East Bengal below the normal by amounts ranging up to 6 inches.

METEOROLOGICAL DIVISIONS.	January.	February.	March.	April.	May.	June.	Actual rainfall of first six months of 1890, expressed as a percentage of the normal fall for the period.
Orissa	24	5	216	20	99	124	107
South-West Bengal	98	Nil	39	75	87	141	104
East Bengal	184	4	70	122	102	89	94
North Bengal	98	Nil	26	155	81	132	113
North Behar	38	2	25	40	95	140	113
South Behar	Nil	5	63	80	95	183	139
Chutia Nagpur	Nil	Nil	120	1	65	132	100

Percentage table for June 1890.

DIVISION.	DISTRICT.	Normal district rainfall for June.	Actual district rainfall for June 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (-).
Orissa	Pooree	7.89	10.06	127	+ 27
	Cuttack	9.12	7.80	86	- 14
	Balasore	8.25	13.39	162	+ 62
	Midnapore	9.59	15.04	157	+ 57
	24-Pergunnahs	9.83	12.09	123	+ 23
	Howrah	9.45	20.29	215	+115
	Hooghly	9.75	14.91	156	+ 56
South-West Bengal	Burdwan	9.23	20.49	222	+122
	Bankoora	9.56	13.80	144	+ 44
	Beerbhoom	9.10	17.41	191	+ 91
	Nuddea	9.62	12.15	126	+ 26
	Khoolna	12.44	16.63	135	+ 35
	Jessore	12.10	14.74	122	+ 22
	Moorshedabad	9.05	11.93	132	+ 32
East Bengal	Chittagong	26.33	22.35	85	- 15
	Backergunge	18.66	16.79	90	- 10
	Noakholly	24.18	17.98	74	- 26
	Furreedpore	12.61	9.07	72	- 28
	Dacca	12.91	12.56	97	- 3
	Tipperah	17.21	14.07	82	- 18
	Mymensingh	17.42	20.49	118	+ 18
North Bengal	Pubna	11.32	10.50	93	- 7
	Bogra	13.11	16.07	123	+ 23
	Rajshahye	10.26	19.16	187	+ 87
	Maldah	10.60	11.26	106	+ 6
	Dinapore	13.25	16.53	125	+ 25
	Rungpore	21.49	27.71	129	+ 29
	Cooch Behar	32.76	44.50	136	+ 36
North Behar	Julpigoree	29.12	40.82	140	+ 40
	Darjeeling	24.02	27.50	114	+ 14
	Purneah	12.98	20.3	156	+ 56
	North Bhagulpore	8.71	10.65	122	+ 22
	Durbhunga	8.00	11.22	140	+ 40
	Mozufferpore	7.08	8.46	119	+ 19
	Chumparun	8.31	12.81	154	+ 54
South Behar	Sarun	6.39	10.64	167	+ 67
	Shahabad	5.30	10.30	194	+ 94
	Gya	5.52	12.68	230	+130
	Patna	5.95	8.98	151	+ 51
	Monghyr	6.38	15.18	238	+138
	South Bhagulpore	7.77	9.98	128	+ 28
	Sonthal Pergunnahs	8.59	15.10	176	+ 76
Chutia Nagpur	Hazaribagh	7.90	11.03	140	+ 40
	Lohardugga	7.00	7.92	113	+ 13
	Singbhoom	8.01	9.04	113	+ 13
	Manbhoom	8.42	12.73	151	+ 51

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of June 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	103.4	73.1	90.4	80.2	85.3	-0.8	10.88	8.73	+2.10	15.2	11.9	+3.3	14.22	10.91
South-West Bengal	104.5	71.2	92.4	79.1	85.8	-0.9	14.25	10.11	+4.14	16.6	14.6	+2.0	18.36	12.86
East Bengal	94.5	69.8	87.4	77.5	82.4	0	16.25	13.21	-1.96	18.4	19.3	-0.9	23.15	22.64
North Bengal	97.8	68.6	88.4	76.7	82.0	-0.4	23.14	17.54	+5.60	20.3	16.8	+3.5	27.18	22.99
North Behar	104.3	70.4	92.2	77.7	85.0	-1.6	12.24	8.72	+3.52	14.9	10.2	+4.7	14.27	10.57
South Behar	110.6	70.0	95.4	79.7	87.0	-0.5	12.29	6.71	+5.58	13.6	10.2	+3.4	13.83	8.30
Chutia Nagpur	103.5*	70.2*	90.1*	74.6*	82.4*	-1.0*	10.46	7.94	+2.52	14.4	13.2	+1.2	11.68	9.65
Assam	93.5	70.3	86.3	76.0	81.2	-1.0								

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 15th July 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.	DISTRICT.	Representative station.	STATION OBSERVATIONS.													
			AIR PRESSURE.			WIND.		TEMPERATURE.								
			Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
ORISSA.	Pooree	Pooree	29.618	29.630	—	NW	?	89.7	5th July	75.6	7 & 8 July	86.8	79.1	83.0	—	81.1
	Gopalpore	Gopalpore	29.605	29.627	+0.030	SW	401	89.2	5th "	75.8	8th "	85.0	79.1	82.1	—0.9	81.1
	False Point	False Point	29.604	29.626	+0.003	WSW & W	322.3	94.5	5th "	73.1	8th "	85.7	76.6	81.2	—2.2	79.1
	Cuttack	Cuttack	29.544	29.626	+0.015	SW	112.6	94.9	5th "	74.3	8th "	87.3	77.3	82.3	+2.0	80.1
	Balasore	Balasore	29.533	29.592	—0.015	SW	212.7	94.3	5th "	72.8	7th "	85.9	77.3	81.6	—1.6	79.1
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.567	29.593	—0.013	WSW	552.0	88.2	5th "	76.0	6th "	84.8	70.4	82.1	—2.4	80.1
	South 24-Pergunnahs	Midnapore	29.433	29.583	—0.023	S	119.5	96.3	6th "	75.1	6th "	80.0	76.9	83.5	—1.0	80.1
	24-Pergunnahs	Calcutta	29.558	29.589	—0.020	SW	99.4	89.5	5th "	75.7	6th "	86.9	76.6	81.8	—1.6	80.1
	Howrah	Burdwan	29.455	29.555	—0.043	SSW	109.6	98.7	9th "	77.4	6th & 9th July	92.1	78.3	85.2	+0.3	80.1
	Hooghly	Bankoora	29.248	29.546	—0.030	W	100.4	95.1	6th "	76.1	9th "	80.7	77.4	83.6	—0.4	80.1
	Burdwan	Raneegunge	29.250	29.582	—0.011	South-westerly	78.9	95.5	6th "	75.9	6th "	89.4	76.9	83.2	—0.8	81.1
	West Burdwan	Berhampore	29.490	29.557	—0.050	Southerly	123.6	91.7	6th "	76.3	6th "	89.2	77.7	83.4	—0.6	80.1
	Moorshedabad	Krishnagar	29.515	29.563	—0.029	South-easterly	149.6	91.8	6th "	75.3	6th "	89.4	77.1	83.3	—0.3	81.1
	Nuddea	Jessore	29.558	29.592	—0.027	Southerly	82.7	89.7	7th "	76.4	11th "	87.8	78.0	82.9	—1.4	81.1
	Jessore	Chittagong	29.600	29.601	+0.017	SSE	163.5	86.1	8th, 9th & 10th July	67.0	11th "	85.0	72.5	78.7	—2.1	78.1
EAST BENGAL.	Chittagong Hill Tracts	Demagiri						Observations not received.								
	Backergunge	Barrisal	29.602	29.614	—0.010	Southerly	134.4	87.3	5th July	75.9	5th & 6th July	85.5	77.0	81.3	—0.1	79.1
	Noakholly	Noakholly	29.610	29.634	—0.010	SW	203.8	85.5	5th & 8th July	73.8	5th "	84.5	76.7	80.1	—0.8	78.1
	Furzedpore	Furzedpore	29.566	29.606	—0.023	Southerly	155.7	88.0	7th "	76.4	6th "	85.7	77.8	81.8	—0.9	80.1
	Dacca	Dacca	29.572	29.595	—0.041	S	220.3	87.1	9th "	74.7	5th & 11th July	85.7	76.2	81.0	—2.8	80.1
	Commillah	Commillah	29.391	29.627	—0.023	SE	169.4	87.4	10th "	73.8	5th "	85.8	75.7	80.8	—0.7	78.1
	Mymensingh	Mymensingh	29.544	29.602	—0.042	SE	147.0	86.7	7th "	75.6	5th "	85.1	77.4	81.3	—1.1	79.1
	Bogra	Bogra	29.508	29.571	—0.024	South-easterly	117.1	90.3	5th "	75.6	6th "	88.2	77.5	82.9	+0.1	81.1
	Pubna	Serajunge	29.540	29.587	—0.039	Southerly	115.3	90.1	5th "	76.2	5th & 6th July	86.9	77.2	82.1	—0.8	79.1
	Rajshahye	Rampore Beaulah.	29.494	29.564	—0.031	South-easterly	146.5	90.8	5th & 6th July	74.6	6th "	87.3	77.5	82.4	—1.2	81.1
NORTH BENGAL.	Maldah	Maldah	29.467	29.555	—	E	71.7	87.4	6th "	77.7	11th "	89.7	78.7	84.2	—	81.1
	Dinapore	Dinapore	29.451	29.571	—0.058	E	119.6	89.1	6th "	78.1	6th "	87.7	79.1	83.4	—0.3	80.1
	Rungpore	Rungpore	29.477	29.602	—0.047	ESE	96.6	90.3	10th "	74.7	5th "	88.1	76.7	82.4	—0.9	80.1
	Julpigoree	Julpigoree	29.298	29.596	—0.056	?	?	88.4	10th "	75.1	7, 8, 10, & 11 July	85.7	75.4	80.6	—1.5	79.1
	Cooch Behar	Julpigoree														
	Darjeeling Hill Tracts	Darjeeling	29.837	—	—0.045	ENE	74.7	68.1	6th "	56.1	10th "	64.4	57.5	61.0	—0.7	59.1
	Purneah	Purneah	29.495	29.562	—0.048	ESE	104.2	89.2	5th & 7th July	76.4	11th "	88.3	78.3	83.3	—0.9	80.1
	North Bhagulpore	Purneah														
	Mozufferpore	Mozufferpore	29.330	29.519	—	E	196.8	92.3	7th "	78.2	9th "	88.2	79.7	84.0	—	81.1
	Durbhunga	Durbhunga	29.378	29.544	—0.053	Easterly	179.7	91.9	7th "	77.3	11th "	85.5	78.3	83.4	—0.8	81.1
NORTH BEHAR.	Chomparan	Motihari	29.317	29.544	—0.040	ESE	243.0	92.2	5th & 7th July	76.9	8th & 10th July	89.5	78.0	83.8	+0.1	80.1
	Saran	Chupra	29.326	29.519	—0.055	Variable	167.5	92.3	5th "	72.7	8th "	87.9	78.0	83.0	—1.7	81.1
	Shahabad	Dehree	29.292	29.537	—0.018	WSW	129.8	92.8	5th "	79.0	10th "	86.7	76.9	81.8	—1.7	80.1
		Buxar*	29.291	29.534	—0.040	W	247.1	89.9	5th "	76.7	6th "	86.1	78.1	82.1	—1.7	80.1
		Arrah	29.327	29.522	—0.041	Variable	87.4	91.4	5th "	77.6	6th, 8th & 9th July	86.6	78.6	82.6	—1.5	80.1
	Gya	Gya	29.168	29.545	—0.039	W	115.1	90.0	5th "	75.8	8th "	87.8	77.8	82.8	—2.3	79.1
	Patna	Bankipore	29.336	29.519	—0.070	E & W	104.0	88.2	7th "	78.2	6th, 8th & 9th July	88.2	79.3	83.6	—1.5	80.1
	South Bhagulpore	Bhagulpore	29.371	29.533	—0.051	Calm & W	63.7	91.7	6th "	77.0	11th "	88.8	78.7	83.8	—0.4	80.1
	Monghyr	Bhagulpore														
	Sonthal Pergunnahs	Doonka	29.051	29.546	—0.042	S	121.3	92.6	6th "	74.0	5th "	88.1	76.7	82.4	—0.8	80.1
CHUTTA NAGPUR.	Hazaribagh	Hazaribagh	27.566	29.567	—0.037	W	278.8	86.5	5th & 6th July	71.7	6th "	81.8	72.9	77.4	—2.1	79.1
	Lohardugga	Ranchee	27.451	29.568	—0.030	Variable	157.1	87.5	5th "	70.9	8th "	82.8	71.8	77.3	—1.1	79.1
	Manbhoom	Ranchee														
	Singbhoom	Chycoassa	28.812	29.577	—0.062	WSW	78.6	92.4	6th "	74.2	10th "	88.3	76.6	82.5	—1.2	79.1
		Sibsagar	29.316	29.630	—0.030	SE		90.6	5th & 9th July	75.5	10th "	85.2	77.4	82.8	—1.0	80.1
ASSAM.	Assam	Dhubri	29.483	29.600	—0.042	SW	150.9	88.2	5th "	76.8	8th "	85.8	77.8	81.8	—1.0	80.1
		Silchar	29.549	29.634	—0.024	Calm		90.5	9th & 10th July	75.3	7th & 8th July	87.4	76.1	81.8	—1.2	79.1

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the subdivisional station for the period in question during the past ten years. The stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 11th of July 1890.

				DISTRICT OBSERVATIONS.													
Average humidity at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.						Average number of rainy days.	Normal number of rainy days.	Representative station.	DISTRICT.			
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.									
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
87	9.3	2.50		2.52		3.75			15.88			4.1	Pooree	Pooree	ORISSA.		
84	6.7	0.77											Gopalpore	False Point			
60	10.0	3.11															
80	10.0	1.73		2.63		4.15			15.52			4.0	Cuttack	Cuttack	ORISSA.		
86	9.1	0.61	1.59	2.42	3.41	3.73	-0.32	20.48	14.71	-5.77	3.7	4.1	Balasore	Balasore			
90	9.9	5.22	3.21	2.88	3.96	4.70	-0.74	20.85	16.73	+4.12	5.3	4.4	Saugor Island	South-West Midnapore			
84	4.9	1.54	2.07	2.92	3.57	4.50	-0.93	24.02	15.94	+8.08	4.3	4.1	Midnapore	Midnapore	SOUTH-WEST BENGAL.		
87	8.3	4.56	2.93	2.50	3.67	3.81	-0.14	22.96	16.35	+6.61	4.9	4.7	Calcutta	24-Pergunnahs			
86	9.0	6.14	4.04	2.58	4.17	3.49	+0.68	27.29	15.01	+12.28	4.7	4.3	Burdwan	Howrah			
86	7.9	3.76	3.76	2.85	4.57	4.72	-0.15	23.25	16.83	+6.42	6.3	4.7	Bankoora	Hooghly	SOUTH-WEST BENGAL.		
88	8.3	5.72	5.0	3.16	6.21	4.27	+1.94	25.21	16.34	+8.87	6.8	5.0	Raneegunge	Reerbhoom			
93	9.1	1.68	3.70	2.76	4.09	4.42	-0.33	16.38	16.00	+1.69	5.7	4.2	Berhampore	West Burdwan			
86	8.4	1.93	3.31	3.01	3.74	4.16	-0.42	19.75	17.40	+2.35	5.4	4.1	Krishnagur	Moorshedabad	SOUTH-WEST BENGAL.		
91	9.7	2.90	3.16	2.50	3.85	3.74	+0.11	23.17	19.43	+3.74	5.8	4.3	Jessore	Nuddea			
93	6.9	16.97	12.46	6.85	13.98	10.06	+3.92	43.78	44.98	-1.20	6.5	5.6	Chittagong	Khoolna			
				3.84		5.92			29.63			5.2	Demagiri	Chittagong	EAST BENGAL.		
92	9.4	3.19	3.75	3.86	5.06	6.17	-1.11	27.42	29.29	-1.87	6.8	5.5	Barrisal	Chittagong Hill Tracts			
91	4.1	5.80	6.08	5.09	7.37	8.08	-0.71	33.17	40.15	-4.98	7.0	5.5	Noakholly	Backergunge			
92	6.7	1.20	2.00	2.79	2.60	3.84	-1.24	15.22	20.74	-5.52	5.0	4.5	Furreedpore	Noakholly	EAST BENGAL.		
92	9.0	8.22	6.36	2.77	6.83	4.48	+2.35	28.59	21.76	+6.83	6.8	4.5	Dacca	Furreedpore			
92	7.4	4.47	3.28	3.01	5.55	4.52	+1.03	26.44	25.21	+1.23	5.8	4.8	Commillah	Dacca			
92	8.1	4.36	3.92	3.52	4.38	4.91	-0.53	31.56	27.36	+4.20	5.8	4.2	Mymensingh	Tipperah	NORTH BENGAL.		
90	6.4	2.39	2.30	3.70	2.46	5.08	-2.62	23.18	22.58	+0.60	6.0	4.0	Bogra	Mymensingh			
93	7.6	2.68	2.52	3.01	2.75	4.32	-1.57	19.41	19.29	+0.12	5.5	4.0	Serajunge	Bogra			
80	3.9	6.42	4.48	3.12	4.64	4.58	+0.06	27.32	19.19	+8.13	6.0	4.1	Rampore Beaulah	Pubna	NORTH BENGAL.		
90	5.4	2.13	1.98	3.44	2.14	5.10	-2.96	15.83	19.75	-3.92	5.5	4.4	Maldah	Rajshahye			
90	9.4	5.81	3.55	3.20	3.65	5.15	-1.50	23.65	22.84	+0.81	5.8	4.2	Dinapore	Maldah			
88	4.3	1.78	2.21	4.51	2.98	6.34	-3.36	35.23	35.27	-0.04	6.0	4.4	Rungpore	Dinapore	NORTH BENGAL.		
85	3.7	11.05	9.81	6.13	11.59	9.16	+2.43	59.26	49.00	+10.26	6.6	4.9	Julpigoree	Rungpore			
90	9.9	17.11	15.95	9.85	10.78	15.47	+4.31	56.61	50.53	+6.08	7.0	5.8	Darjeeling	Julpigoree			
91	8.7	5.58	6.38	3.48	6.96	5.93	+1.03	25.38	20.46	+4.92	4.6	4.0	Purneah	Cooch Behar	NORTH BENGAL.		
91	6.9	3.32	4.43	2.89	4.43	4.88	-0.45	14.57	13.69	+0.88	5.7	3.1	Mozufferpore	Darjeeling Hill Tracts			
86	8.1	4.91	3.17	3.26	3.48	5.27	-1.79	15.54	14.05	+0.89	5.0	3.2	Durbhunga	Purneah			
80	8.9	5.86	5.84	3.93	5.87	5.68	+0.19	22.24	15.72	+6.52	5.5	3.1	Motihari	North Bhagulpore	NORTH BENGAL.		
87	5.3	1.60	2.75	3.44	2.92	5.20	-2.28	15.12	12.75	+2.37	4.0	3.7	Chupra	Chumparun			
89	9.7	1.85											Dehree	Saran			
93	1.32	1.52	3.42	2.69	3.62	4.02	-0.40	14.54	9.88	+4.66	5.8	3.8	Buxar	Shahabad	SOUTH BENGAL.		
91	9.9	5.94											Arrah	Gya			
85	9.4	10.06	7.61	2.47	8.08	4.16	+3.92	22.18	11.18	+11.00	5.5	3.5	Gya	Patna			
86	10.0	2.81	2.91	2.74	3.03	4.63	-1.60	12.82	12.31	+0.51	4.5	3.8	Bankipore	Bhagulpore	SOUTH BENGAL.		
86	9.3	3.60	1.44	2.44	1.88	4.15	-2.47	16.49	12.85	+3.64	4.4	4.1	Bhagulpore	South Bhagulpore			
86	5.7	5.14	3.19	2.89	3.56	4.68	-1.32	21.34	16.20	+5.14	5.7	4.4	Doomka	Monghyr			
86	10.0	3.39	2.59	2.74	3.73	4.91	-1.18	16.07	14.54	+1.53	5.2	4.5	Hazaribagh	Sonthal Pergunnahs	CHUTTA NAGPUR.		
84	9.1	1.94	2.96	2.60	3.43	4.59	-0.96	12.64	13.62	-0.98	5.3	5.1	Ranchi	Hazaribagh			
85		1.73	2.75	3.23	4.16	4.16	-0.93	16.09	13.98	+3.01	6.5	4.7		Manbhoom			
85	9.1	2.62	2.80	2.36	4.97	3.80	+1.17	17.10	14.69	+2.41	4.0	4.1	Chyebassa	Singbhoom	ASSAM.		
81	9.7	7.47											Sibsagar				
80	9.7	2.04											Dhubri	Assam			
80	9.0	3.09											Silchar				

Remarks. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional stations. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisional stations.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 6th July.	Sunday, 7th July.	Monday, 8th July.	Tuesday, 9th July.	Wednesday, 10th July.	Thursday, 11th July.	Friday, 12th July.	Number of rainy days.	Rainfall week.				
ORISSA	Pooree	Pooree	0.32	0.39	0.39	0.13	1.39	0.04	4	2.14	10.64	2.98	21.77	12.44	
		Khurda	0.03	0.08	0.39	0.13	0.62	1.39	6	4.36	13.74	3.92	22.79	15.53	
		Banpur	0.11	0.04	0.03	1.36	3.79	11.81	11.81	
		False Point	0.05	0.70	0.73	1.03	0.60	5	3.11	6.13	4.31	18.84	16.78	
		Gop	0.05	0.40	0.05	?	?	?	
		Salpara	?	?	?	
	Cuttack	Pipli	?	?	?	
		Jagatsingapore	0.65	1.30	1.10	0.50	0.70	5	4.25	8.25	3.59	18.43	12.25
		Banki	0.28	0.50	0.88	4	1.99	9.28	4.71	24.74	15.31
		Cuttack	0.96	0.03	0.71	0.20	4	1.99	9.28	3.97	24.74	18.28
		Kendrapara	0.04	0.63	0.47	0.53	5	1.71	6.49	3.75	14.82	14.53
		Jajpore	0.77	0.43	0.47	0.23	4	1.90	6.12	4.73	20.66	17.14
	Balasore	Dharmasala	1.15	0.15	0.40	0.35	?	?	?	
		Salipore	1.40	0.80	0.15	3	2.35	6.90	?	20.04	?
		Chandbali	0.07	0.20	0.22	0.72	0.50	5	1.71	4.54	2.90	17.09	13.26
		Bhuddruck	0.30	1.67	2	1.97	4.22	3.53	22.65	15.52	
		Sorah	0.60	0.80	2	1.20	3.00	3.39	19.18	13.32
		Balasore	0.03	0.15	0.08	0.04	0.25	5	0.55	2.68	8.77	22.47	16.30	
SOUTH-WEST BENGAL.	Midnapore	Jellassore	1.30	0.18	2	1.48	2.59	4.39	20.55	14.08	
		Haripodah	0.20	0.26	0.22	0.45	1.35	6	2.60	3.20	4.36	20.54	16.08	
		Contai	0.39	1.08	0.69	3	2.46	2.93	4.58	22.90	16.19	
		Saugor Island	0.05	1.73	2.71	0.03	0.18	6	5.22	6.24	4.54	21.62	17.05	
		Tumlook	0.20	0.50	1.00	0.30	4	2.00	3.50	2.91	25.20	14.27	
		Midnapore	1.20	0.03	0.19	3	1.42	3.11	4.77	25.92	15.40	
	24-Pergunnahs	Ghatal	0.02	0.89	0.09	0.06	1.68	6	2.78	4.09	5.81	20.95	17.76	
		Kukrahaty	0.12	0.64	0.26	0.53	0.38	5	1.93	2.34	?	14.65	?	
		Garbhaty	0.04	0.13	0.82	0.12	0.45	0.18	7	1.93	2.37	?	17.67	?	
		Diamond Har- bour	0.02	0.02	0.06	0.22	0.15	6	1.94	2.70	4.98	17.89	16.97	
		Canning Town	0.15	1.15	0.20	1.10	5	3.74	4.49	?	22.04	?	
		Alipore Jail	0.14	1.88	0.15	0.04	3.82	6	6.42	6.53	4.16	24.05	16.96	
	Howrah	Barrackpore	1.05	0.40	1.30	4	2.80	3.53	3.24	19.83	16.02	
		Dum-Dum	0.36	0.02	1.82	4	2.62	3.16	3.60	19.60	16.38	
		Barasat	0.10	0.91	1.12	4	2.94	3.58	3.39	20.77	16.78	
		Buseerhat	0.40	0.40	0.63	4	2.07	4.27	3.81	24.67	19.72	
		Howrah	0.07	1.42	0.10	0.10	2.70	6	4.74	4.96	3.85	21.41	15.90	
		Ooloberiah	0.03	1.28	0.19	0.10	0.13	6	1.94	2.40	4.73	32.82	16.56	
Hooghly	Serampore	.....	0.89	0.35	.....	0.09	1.05	5	2.50	3.46	3.40	20.30	15.59
	Hooghly	.....	0.42	0.63	.....	0.11	0.43	5	1.64	1.55	3.38	21.01	16.53
	Jehanabad	0.10	0.07	.....	.....	0.10	1.03	5	2.20	3.27	4.55	24.36	16.95
	Burdwan	.....	.....	1.17	.....	0.78	0.07	4	2.24	2.43	3.53	23.15	14.20
	Burdwan	.....	0.14	0.57	.....	2.80	2.10	5	6.14	6.19	3.47	20.08	14.54
	Outwa	2.78	0.26	.....	0.39	0.17	0.14	5	3.74	3.90	3.48	28.75	16.21	
Rankoora	Raneegunge	0.16	0.57	0.53	0.01	1.13	2.37	7	5.72	5.78	4.33	26.15	14.83		
	Mankur	0.29	0.42	.....	0.07	1.38	1.26	6	4.97	4.75	?	25.88	?	
	Bankoora	.....	0.76	0.02	0.22	0.14	1.50	6	3.75	4.70	4.16	21.47	15.79	
	Bishenpore	0.29	0.33	0.05	1.19	0.84	0.49	7	3.48	3.12	4.68	25.74	16.88		
	Maliara	0.20	0.76	0.29	0.01	3.38	0.90	7	6.37	7.08	5.18	30.52	16.21		
	Khatra	0.45	0.42	0.10	.....	0.25	0.30	5	1.42	2.76	4.84	15.23	18.35	
Seerboom	Indas	0.04	2.18	1.00	0.11	3.69	1.16	7	9.91	16.29	?	29.19	?		
	Kotalpore	.....	0.60	0.43	0.27	3.15	2.11	6	6.99	7.20	?	30.61	?	
	Anda	0.60	0.50	.....	2.00	1.14	0.60	6	5.24	6.54	?	30.61	?	
	Gangajalghati	.....	2.25	0.49	.....	3.79	0.30	5	7.25	7.25	?	32.35	?
	Raipore	0.82	2.45	0.93	0.45	.....	0.85	5	5.50	7.05	?	33.44	?	
	Sonamukhi	.....	1.18	.....	.....	0.79	3.00	4	6.08	7.16	?	23.72	?
Khoolna	Bh. Soory	0.16	3.17	0.05	2.97	0.29	2.16	7	9.01	9.16	4.30	26.61	17.94		
	Hetampore	0.64	0.60	0.57	0.15	0.40	0.80	7	4.11	5.19	4.40	23.84	17.32		
	Rampore Haut	0.45	0.50	.....	0.30	2.34	0.45	6	4.34	4.68	3.85	24.14	15.84	
	Bolpore	0.35	0.22	0.22	.....	2.36	0.35	5	3.60	3.80	?	23.24	?	
	Murari	1.02	.....	1.60	0.80	1.75	0.65	5	6.02	7.21	?	19.23	?	
	Naddea	.....	0.40	.....	.....	0.10	0.65	5	2.61	3.34	3.82	20.79	16.20
Jessore	Kishnaghat	.....	0.55	0.15	.....	0.90	0.22	6	1.96	2.44	4.15	21.92	15.61
	Choondanga	.....	1.60	.....	0.03	2.22	0.75	5	4.81	4.86	4.48	18.60	18.27
	Meherpore	.....	0.73	.....	1.40	0.30	0.42	4	2.85	3.30	3.06	17.42	16.94
	Kooshtea	0.17	2.32	0.04	0.28	0.25	0.74	7	4.30	4.73	4.39	19.99	19.73		
	Satkhiria	0.29	0.69	0.06	0.37	0.22	0.08	7	1.54	2.62	4.31	23.94	20.01		
	Bagirhat	0.31	0.43	0.09	.....	0.95	0.81	5	2.60	3.60	4.68	26.90	22.10	
Moorshedabad	Khoolna	0.35	0.28	1.20	0.10	1.76	0.96	7	5.07	5.64	3.67	23.61	19.60		
	Nakipore	0.81	0.22	0.56	.....	0.53	.....	4	2.42	2.92	?	29.21	?
	Ramulp	0.51	0.27	0.46	.....	2.18	1.07	6	4.70	6.06	?	27.11	?	
	Narail	0.45	.....	0.19	0.23	0.49	0.02	6	2.07	3.16	2.80	24.45	16.93	
	Jessore	0.12	.....	.....	0.03	2.50	0.13	5	2.90	3.62	3.55	25.47	19.77
	Jhenidah	.....	1.63	0.76	0.11	3.32	0.21	6	6.24	6.24	3.33	18.59	19.61	
AST BENGAL	Magoorah	0.15	0.09	.....	0.10	2.45	0.05	6	3.45	4.02	3.41	20.22	19.31	
	Bongong	0.70	.....	0.08	.....	.....	0.35	4	1.43	1.98	4.13	17.10	17.41
	Kandi	.....	1.10	.....	.....	.....	0.40	3	1.90	2.20	.....	16.52	16.39
	Berhampore	.....	0.63	0.06	0.23	0.15	0.33	6	1.68	1.82	4.78	13.12	16.77	
	Lalbagh	.....	0.62	0.04	0.10	0.96	0.70	6	3.73	3.82	4.19	13.12	15.44	
	Azimungo	.....	0.50	0.07	.....	1.79	0.95	5	4.37	4.73	4.01	16.31	16.79

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.	
			Saturday, 5th July.	Sunday, 6th July.	Monday, 7th July.	Tuesday, 8th July.	Wednesday, 9th July.	Thursday, 10th July.	Friday, 11th July.	Number of rainy days.	of Rainfall week.					
EAST BENGAL—contd.	Noakholly ...	Gournadid ...	0.38	0.44	0.36	0.27	0.25	0.16	6	1.86	3.85	?	18.73	?	
		Bauphal ...	0.12	1.23	0.23	0.23	1.00	0.40	0.07	7	3.37	4.77	?	24.29	?	
		Noakholly ...	0.85	0.61	0.38	0.93	1.15	0.72	1.03	7	5.67	6.85	7.79	30.93	38.54	
		Fenny ...	0.87	0.26	1.15	1.85	1.20	0.50	0.63	7	6.48	7.87	8.36	39.38	41.70	
		Harishpore ...	0.15	1.59	?	?	?	
		Ramganj ...	2.60	0.30	0.10	1.10	0.62	0.62	6	5.34	6.77	?	31.62	?	
		Furzedpore ...	Madaripore ...	1.21	0.28	0.66	0.45	4	2.60	3.53	4.03	16.02	21.62
		Furzedpore ...	0.03	0.63	0.38	0.07	0.15	0.12	0.25	7	1.63	1.66	3.98	14.23	21.52	
		Goalundo	0.11	0.42	0.20	1.65	4	2.38	2.60	3.56	15.40	19.06	
		Dacca ...	Munshigunge ...	2.03	3.50	0.32	0.31	0.33	0.45	6	6.94	7.75	4.22	31.98	25.04
	Hill Tipperah ...	Dacca ...	3.72	2.08	0.12	0.28	0.46	1.57	0.40	7	8.63	8.73	3.81	28.25	21.48	
		Narainkunge ...	3.00	2.46	0.20	0.34	0.28	0.16	1.12	7	7.56	7.81	5.43	30.60	22.96	
		Manickgunke ...	0.37	0.34	0.72	0.18	0.15	0.34	0.21	7	2.31	3.04	3.75	24.35	17.43	
		Joydebpore ...	0.67	0.61	0.15	0.46	0.88	0.02	0.64	7	3.43	4.01	?	27.54	?	
		Agartola ...	0.28	0.60	0.35	0.37	0.14	0.27	6	2.01	5.98	3.78	29.44	22.54	
		Comilla ...	1.25	0.21	0.30	0.35	1.05	0.33	1.14	7	4.59	7.15	5.30	27.44	28.97	
		Chandpore ...	2.00	0.30	1.00	0.15	4	3.45	4.77	5.38	26.25	25.42	
		Brahmunberis ...	1.62	0.25	0.04	0.40	0.44	0.30	6	3.05	4.27	5.00	22.46	23.93	
		Ramchandrapore ...	2.70	3.32	0.86	0.28	0.85	0.45	0.42	7	9.06	13.32	?	32.76	?	
		Nasirnagar	0.55	0.10	2	0.65	1.15	?	17.97	?	
	Mymensingh ...	Daudkandi ...	0.70	1	0.70	1.72	?	14.46	?	
		Kasba ...	0.28	4.02	?	?	?	
		Laksham	2.40	1.45	2.22	3	6.07	10.79	?	34.25	?	
		Kishoregunge ...	0.72	0.47	0.74	0.21	4	2.14	3.48	4.72	29.61	24.68	
		Atia (Tangail) ...	0.73	0.46	1.54	0.22	0.13	5	3.08	3.23	3.35	25.95	20.13	
		Mymensingh ...	1.66	1.31	0.09	0.25	0.82	0.22	0.06	7	4.41	4.73	5.45	31.72	30.44	
		Jamshilpore ...	0.12	1.02	0.62	0.26	0.63	0.56	6	3.20	3.43	4.69	31.84	23.93	
		Netrokona ...	3.80	0.23	1.03	0.38	0.43	0.44	0.44	7	6.75	7.00	6.32	38.98	31.72	
		Subornakhally ...	1.63	1.15	0.04	3	2.83	4.45	?	20.19	?	
		Durgapore ...	3.29	1.00	0.69	0.20	0.40	0.40	5	1.72	1.85	?	25.54	?	
	Bogra ...	Sherepore Town ...	0.34	0.82	0.26	0.10	0.20	5	1.72	1.85	?	25.54	?	
		Dewanganj ...	0.00	0.19	0.80	3	1.89	1.89	?	28.62	?	
		Pubna	1.06	0.20	0.06	0.22	0.15	0.61	6	2.30	2.62	4.31	17.46	18.87	
		Seraingunge ...	1.34	1.15	0.01	0.11	0.12	5	2.73	2.87	4.33	21.34	19.69	
		Sherepore ...	0.79	0.08	0.09	0.05	0.16	0.50	0.67	7	2.94	3.41	5.34	23.32	22.87	
		Nowkilla ...	0.24	0.74	0.19	0.64	0.24	5	2.05	2.21	3.99	20.35	20.70	
		Bogra ...	0.07	0.59	0.56	0.21	0.16	0.35	0.37	7	2.31	2.31	5.54	20.15	23.18	
		Panchbibi	0.16	0.21	0.38	0.90	0.24	5	1.89	1.89	5.43	23.92	21.52	
		Beaulah ...	0.66	1.68	0.22	0.21	2.50	0.24	1.45	7	6.45	6.81	4.78	27.32	17.65	
		Natore ...	0.35	2.03	0.35	0.02	0.20	0.66	0.65	7	4.26	4.29	5.08	32.37	18.02	
Rajshahye ...	Naogaon ...	0.22	.....	.....	.....	1.80	0.31	0.39	4	2.72	2.82	3.88	22.29	21.19
	Lalpur ...	1.28	.....	.....	.....	1.00	0.30	0.32	4	2.99	3.45	?	14.86	?
	Manda ...	1.07	0.50	1.02	0.53	1.03	0.10	.....	6	4.25	4.25	?	14.75	?	
	Maldah ...	.....	0.02	.....	0.94	0.88	0.24	0.05	5	2.13	2.25	5.06	17.00	18.03
	Chanchal ...	0.04	0.07	.....	0.26	1.26	0.05	0.15	6	1.83	2.02	5.15	14.64	20.84	
	Gajoi ...	.....	0.07	.....	0.20	0.75	0.27	0.19	5	1.48	1.48	?	17.01	?
	Sibganj ...	.....	0.50	.....	1.98	1.62	0.72	0.55	5	5.37	5.69	?	24.48	?
	Mohadebpore ...	0.62	0.10	1.44	0.82	0.29	0.20	0.69	7	4.06	4.06	4.06	20.99	20.03		
	Churamon ...	.....	0.13	.....	0.66	0.21	0.07	0.97	5	2.04	2.25	5.15	22.74	20.12
	Raigunge ...	.....	0.64	.....	0.18	1.15	0.85	1.96	5	4.78	5.26	5.26	24.54	23.40
Dinapore ...	Dinapore ...	0.30	0.84	.....	2.05	0.19	0.95	0.65	6	4.43	4.61	5.68	27.70	27.18	
	Raipurhat ...	0.24	0.17	.....	1.23	0.14	0.23	0.45	6	2.46	2.59	5.61	22.33	22.88	
	Thakoorgaon ...	0.50	0.16	0.43	0.69	0.23	0.08	0.68	7	2.77	3.06	?	56.18	?		
	Bhawanigunge (Gyabanda) ...	0.65	0.65	0.10	0.20	.....	0.32	0.15	6	2.07	2.32	4.76	30.67	27.18	
	Rungpore ...	0.30	0.32	0.36	0.23	0.04	0.07	0.14	7	1.46	2.07	7.66	30.72	34.14		
	Kurigram ...	0.27	0.06	0.26	0.63	.....	0.63	.....	5	0.65	1.35	6.22	35.95	38.12
	Bagdokra (Nilphamari) ...	.....	0.77	0.21	1.64	1.15	0.25	0.33	6	4.65	5.58	6.71	43.56	41.67	
	Ulipore ...	.....	0.48	0.16	.....	.....	.....	.....	2	0.64	0.87	?	29.84	?
	Jalpigoree ...	Jalpigoree ...	0.52	0.26	4.31	2.61	1.89	1.74	0.06	7	11.30	13.09	12.15	57.26	48.21	
	Alipore Doar ...	9.34	2.05	4.70	2.50	0.70	1.57	.....	6	11.86	16.80	?	75.46	?	
Cooch Behar ...	Paliacotta ...	3.31	4.11	5.78	2.47	1.29	0.72	0.05	7	17.64	20.36	?	67.26	?		
	Debiganj ...	.....	0.43	1.66	1.77	0.48	0.19	0.22	6	4.75	5.24	?	44.88	?	
	Bhagatpore (Nagrakatta) ...	4.83	0.15	2.19	1.30	0.25	1.69	1.07	7	11.78	21.44	?	57.39	?		
	Dinhatia ...	0.05	0.34	0.45	0.32	0.02	0.45	0.01	7	2.57	3.06	5.73	40.55	45.43		
	Cooch Behar ...	0.55	5.71	1.60	0.55	0.13	0.78	.....	6	9.32	11.85	9.98	64.47	55.70	
	Miekgunje ...	0.63	1.29	1.89	3.85	3.57	0.13	.....	6	11.17	12.84	8.01	62.39	54.94	
	Matabhanga ...	7.57	4.19	2.78	0.95	0.24	0.03	0.02	7	14.88	17.66	9.91	65.05	50.71		
	Buxa ...	0.31	3.32	4.33	3.22	2.04	2.57	0.29	7	16.08	24.12	22.65	74.51	51.55		
	Siliguri ...	1.80	2.65	1.42	1.67	3.19	5.10	0.15	7	15.98	20.69	15.98	50.57	49.16		
	Darjeeling Hill ...	1.87	1.15	1.77	3.10	2.74	4.00	2.48	7	17.11	18.19	12.21	62.96	40.13		
North Bhagulpore ...	Darjeeling ...	0.74	0.64	1.45	2.53	4.24	3.54	1.59	7	14.64	16.14	11.07	39.40	31.28		
	Kalimpong ...	1.02	2.40	1.70	1.30	4.32	4.74	3.50	7	18.98	21.38	?	69.15	?		
	Kissangunge ...	.....	.....	0.94	4.21	0.75	0.72	0.20	5	6.82	7.09	8.11	33.45	27.64
	Arraueah ...	.....	.....	1.56	2.97	1.83	0.76	0.33	5	7.45	8.47	6.84	25.00	25.01
	Purneah ...	0.01	.....	0.77	2.50	2.13	0.69	0.08	6	5.58	6.70	4.97	28.77	19.31	
	Gondwara ...	.....	.....	1.23	.....	1.08	.....	.....	2	2.86	?	?	?	?
	Balarampore ...	.....	0.49	1.06	0.87	1.20	1.00	1.10	6	5.57	5.57	?	23.62	?	
	Mattari ...	.....	0.40	1.95	1.20	0.44	0.65	.....	2	?	?	?	?	?
	Kaliaganj ...	0.29	.....	0.48	3.40	1.61	0.10	0.13	6	6.01	6.01	4.91	37.19	?	
	Maddapore ...	.....	.....	0.44	5.20	.....	1.25	0.36	6	6.81	6.81	4.91	23.22	13.95
Durbhunga ...	Scopool ...	.....	.....	0.44	3.75	1.44	0.61	.....	4	6.24	6.74	4.82	16.53	16.39
	Protadganj ...	.....	.....	1.82	.....	0.92	0.32	.....	3	3.00	3.87	?	15.34	?
	Tajpore ...	.....	.....	0.03	1.08	0.04	1.02	0.04	5	2.21	2.32	5.15	11.78	13.86
	Durounga ...	.....	0.03	0.07	2.24	2.04	0.48	0.05	6	4.91	5.09	5.82	17.62	15.02	
	Madhubani ...	0.06	.....	.....	1.90	0.27	0.17	.....	4	2.40	3.04	4.30	17.53	15.97
	Bahera ...	.....	.....	.....	3.20	0.10	0.53	0.05	4	3.88	3.88	?	12.50	?
	Bahera ...	.....	.....	0.20	1.30	.....	0.2.							

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 11th of July 1890—concl.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 5th June.	Sunday, 6th June.	Monday, 7th June.	Tuesday, 8th July.	Wednesday, 9th July.	Thursday, 10th July.	Friday, 11th July.	Number rainy days.	of Rainfall week.				
NORTH BEHAR—concluded.	Champaran...	Motihari ...	0'10	.....	0'03	2'40	0'07	2'10	0'14	6	5'59	5'64	5'28	23'02	14'58
		Bettiah ...	.....	1'70	0'45	1'09	0'80	2'05	.....	5	6'09	6'09	6'08	20'82	15'61
		Bagaha ...	.....	2'50	0'30	1'24	2'45	2'22	0'01	6	9'01	9'39	?	26'67	?
	Sarun ...	Burhuras ...	.....	.....	.....	0'91	0'24	1'04	0'23	4	3'02	3'07	?	18'95	?
		Gopalgunge ...	.....	.....	0'05	.....	1'32	.....	.....	2	1'07	2'47	5'90	12'82	18'53
		Sewan ...	.....	.....	3'81	0'22	0'21	0'38	0'12	5	4'74	4'74	4'83	18'94	12'81
SOUTH BEHAR	Shahabad	Chuprah ...	.....	0'03	0'41	0'06	0'32	0'13	.....	5	1'55	1'55	4'88	13'60	11'88
		Buxar ...	.....	0'02	0'05	0'18	0'02	0'09	1'02	6	1'08	2'02	3'79	12'90	9'39
		Behree ...	.....	0'00	0'10	0'12	0'17	0'38	0'48	7	1'85	2'09	4'20	12'41	9'07
	Gya	Bhagosa ...	.....	0'45	0'70	0'25	.....	1'80	0'30	5	3'50	3'80	4'12	15'56	9'08
		Sasseram ...	0'07	0'83	0'12	.....	0'05	0'27	1'25	6	2'59	2'03	3'56	18'15	9'40
		Arrah ...	.....	.....	3'55	2'60	0'34	0'47	0'20	5	7'16	7'26	4'44	20'64	11'26
	Patna	Mohania ...	.....	0'50	0'80	.....	0'50	0'80	.....	4	2'60	2'60	?	9'60	?
		Aurangabad ...	.....	0'84	.....	0'30	1'10	1'05	0'20	5	3'69	4'22	3'93	14'29	11'03
		Gya ...	.....	0'86	2'82	4'36	0'44	0'34	1'24	6	10'06	10'80	3'91	21'94	11'48
	Monghyr	Nowadah ...	.....	1'88	4'36	0'54	1'72	0'29	1'28	6	9'57	9'57	4'46	27'27	11'41
		Jehanabad ...	.....	0'12	2'61	3'03	1'20	0'13	.....	5	7'11	7'73	4'33	25'14	10'73
		Arwal ...	.....	1'40	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
	South Bhagulpore.	Isaunagar ...	.....	0'50	0'10	0'20	0'10	0'20	0'40	6	1'50	2'06	?	6'01	?
		Sherrghati ...	.....	0'90	.....	0'29	0'40	.....	0'46	4	1'96	3'71	?	10'70	?
		Rajauli ...	.....	0'08	0'23	0'78	1'76	0'25	0'17	6	3'27	3'43	?	16'47	?
	Sonthal Per-gunnahs.	Pakri Barawan ...	.....	.....	.....	.....	.....	3'25	0'40	2	3'65	4'30	?	23'78	?
		Patna ...	.....	0'05	0'08	0'38	1'66	0'61	0'03	6	2'81	3'05	4'40	12'32	12'87
		Dinapore ...	.....	.....	1'10	.....	0'35	0'46	0'35	4	2'26	2'26	4'42	11'74	12'14
	Monghyr	Behar ...	.....	.....	0'20	1'09	0'48	1'71	0'09	5	3'57	3'81	4'82	16'12	12'76
		Barrh ...	.....	.....	0'80	0'20	2'00	.....	.....	3	3'00	3'00	4'66	10'95	11'37
		Bickram ...	.....	.....	0'45	4'12	0'32	0'99	.....	5	5'95	6'07	?	19'97	?
	South Bhagulpore.	Hilso ...	.....	0'06	0'56	0'72	0'70	0'46	0'09	6	2'58	3'56	?	20'17	?
		Begoserai ...	.....	0'01	.....	0'24	0'20	.....	0'25	4	0'70	0'91	4'25	12'43	11'06
		Monghyr ...	.....	0'05	.....	0'03	0'29	0'07	0'08	5	0'53	0'88	4'44	17'94	12'07
	South Bhagulpore.	Jamui ...	.....	.....	.....	0'30	0'04	0'16	.....	3	1'10	1'54	4'44	21'15	12'03
		Gogri ...	.....	.....	.....	1'37	.....	.....	.....	1	1'37	2'04	?	17'09	?
		Sheikpura ...	.....	.....	.....	1'20	0'10	.....	.....	2	1'30	1'30	?	16'49	?
	Sonthal Per-gunnahs.	Bhagulpore ...	.....	0'12	0'34	1'00	0'79	1'21	0'13	6	3'50	3'75	3'72	16'98	13'37
		Bark ...	.....	.....	0'45	0'08	0'58	0'36	0'26	4	1'27	1'29	3'90	13'86	13'34
		Kolga ...	0'00	0'50	7'50	1'42	0'77	0'54	.....	6	11'83	11'73	?	28'56	?
	Sonthal Per-gunnahs.	Bangaon ...	.....	.....	.....	2'36	.....	0'52	.....	2	2'88	3'16	?	16'65	?
		Rajmehal ...	0'05	.....	.....	2'37	0'26	0'08	0'26	5	3'02	3'02	5'35	19'01	13'71
		Godda ...	.....	0'21	.....	0'32	.....	2'10	0'63	4	3'26	3'34	4'24	17'30	13'46
	Sonthal Per-gunnahs.	Pakour ...	.....	0'27	0'50	1'39	0'29	0'24	0'13	6	2'91	3'15	4'05	20'14	18'49
		Nya Doomka ...	0'22	0'18	0'08	0'08	0'04	1'53	3'01	7	5'14	5'34	4'52	22'28	20'04
		Deoghur ...	0'30	0'07	0'09	0'48	0'22	0'28	0'23	7	1'76	1'79	4'82	14'33	15'15
	Sonthal Per-gunnahs.	Jamtara ...	0'15	0'19	.....	0'36	0'76	0'44	1'17	5	3'07	3'55	4'17	25'45	14'73
		Mohagama ...	.....	.....	.....	.....	1'26	0'85	1'12	3	3'23	4'38	?	19'50	?
		Nanhat ...	.....	.....	.....	0'07	0'25	0'40	0'53	4	1'25	1'25	?	8'51	?
CHUTIA NAG-PUR.	Hazaribagh ...	Pachamba ...	.....	0'07	0'03	1'95	0'05	0'56	0'83	6	3'39	4'51	4'22	24'09	13'97
		(Giridi) ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Hazaribagh ...	0'05	0'90	1'33	0'07	0'02	0'33	0'49	7	3'39	5'87	4'80	16'05	13'46
	Lohardugga ...	Semtagurah ...	.....	0'46	0'14	.....	0'10	1'00	0'10	5	1'80	2'27	4'64	16'99	13'72
		Mahudi Hills ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jhoomra Hills ...	.....	0'80	.....	.....	0'40	0'70	.....	3	1'00	2'90	6'29	17'20	13'71
	Lohardugga ...	Bark ...	.....	0'25	0'48	0'10	.....	1'20	0'28	5	2'27	2'88	?	11'59	?
		Chatra ...	.....	0'59	1'39	0'50	.....	0'82	1'00	5	4'12	4'95	?	13'95	?
		Karagdeha ...	.....	.....	0'70	0'60	0'35	0'29	0'19	5	2'13	2'23	?	19'83	?
	Lohardugga ...	Ramghar ...	.....	.....	.....	.....	0'50	1'00	1'00	3	2'50	4'30	?	14'89	?
		Lohardugga ...	.....	.....	10'78	0'12	.....	3'21	0'25	4	4'36	4'63	4'61	13'18	14'40
		Kanchi ...	0'10	0'15	0'24	0'11	0'24	0'40	0'33	7	1'62	2'62	4'39	12'28	15'07
	Singbhoom ...	Palamow ...	.....	0'37	1'70	0'47	0'12	0'25	.....	5	2'91	3'05	4'18	11'80	11'27
		Silli ...	.....	.....	0'90	.....	.....	1'09	.....	2	2'50	2'50	?	12'90	?
		Bolumat ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
	Singbhoom ...	Jossenabad ...	.....	.....	0'40	1'95	.....	0'54	0'95	4	3'24	3'24	?	10'80	?
		Garwah ...	0'23	0'24	0'30	.....	0'70	.....	.....	.....	.....	?	?	?	?
		Chyebassa ...	.....	0'15	2'42	.....	.....	0'11	0'12	4	2'80	4'97	3'80	17'10	14'09
	Singbhoom ...	Chakradhar-pore ...	.....	0'10	.....	.....	.....	.....	.....	1	0'10	0'25	?	4'30	?
		Ghatilla ...	2'00	1'50	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
		Baharagura ...	0'32	0'02	0'55	.....	0'05	1'75	.....	.....	.....	?	?	?	?
	Manbhoom ...	Parulia ...	.....	0'49	0'04	3'17	0'11	0'54	0'03	6	1'38	3'63	4'28	19'03	15'05
		Gobindpore ...	0'14	0'17	0'02	0'61	0'07	0'06	0'40	7	2'07	2'82	4'04	14'02	12'39
		Kaghunath-pore ...	.....	0'45	0'05	0'03	0'33	1'35	0'19	6	2'40	3'76	?	20'41	?
	Manbhoom ...	Barrabhoom ...	1'05	0'45	0'69	0'10	0'90	1'60	0'20	7	4'90	5'63	?	18'12	?
		Jhalda ...	0'39	0'22	0'31	.....	.....	0'71	0'09	5	2'42	2'94	?	14'89	?
		Chas ...	.....	0'04	0'03	0'67	.....	0'39	0'22	5	1'25	2'25	?	18'09	?

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 15th July 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
11TH OF JULY 1890.

IN the early part of the week a shallow depression lay along the foot of the hills over North Bengal and North Behar, causing westerly winds in all districts. While these winds continued, that is, on Saturday and Sunday, general rain fell in East and North Bengal and the eastern parts of South-West Bengal, but over the western half of the province rain was almost entirely absent. Meanwhile in the Bay strong winds were again developing, velocity at Saugor Island increasing from 10 miles an hour on Sunday to 24 miles on Monday and 31 on Tuesday. These high velocities were not due to any depression over the Bay, as pressure decreased steadily to North Bengal, but gradients were steeper than usual owing to the shallow depression in that district. Pressure remained steady in the north-east corner of Bengal, and fell briskly in Chutia Nagpur and the west of Behar, the low-pressure area becoming more diffused, and ultimately lowest pressure being transferred to the western districts. After this easterly winds recommenced in North Bengal and Behar, and the normal circulation was established by the 8th. General heavy rain then fell in all districts except Orissa and part of South-West Bengal, some heavy falls being reported on the 9th, and this general rainfall continued, though not in such large amounts, till the end of the week. During the last three days very few stations did not receive daily rain. During the latter half of the week pressure changes were of very little importance. On Thursday a brisk fall in Chutia Nagpur caused a very shallow depression to appear there, but within it defect was not more than a twentieth of an inch, and as the distribution was very nearly normal over the Bay, differences of pressure increased very slightly, and only a faint cyclonic circulation was perceptible in its near neighbourhood.

Pressure.—Changes have been very unimportant, the largest rarely exceeding a twentieth of an inch. In the early part of the week defect was about a twentieth of an inch in North Bengal, and towards the end in Chutia Nagpur. As, when above the normal it has been by very small amounts, the means for the week are below the normal at nearly all stations, the largest differences being in North Bengal and North Behar, where they are very near a twentieth of an inch, and in one or two cases exceed it. There is a slight excess in Orissa, and defect of about two-hundredths of an inch in Lower Bengal.

Temperature.—Fell almost steadily throughout the week, changes being somewhat irregular, from the variable falls of rain. In the early part of week, and again at the end, it rose in the western districts, and about the middle of the week it rose in East and North Bengal, but at other times it has been falling slowly as a rule. The means are hence below the normal in all districts, defect being largest in the west. In Chutia Nagpur it is 1.6° , South Behar 1.4° , East Bengal 1.2° , Assam 1.1° , South-West and North Bengal and Behar rather less than 1° , and Orissa $.5^{\circ}$. The highest temperature recorded during the week was 99° in South Behar, and the lowest 67° in East Bengal.

Rainfall.—Heavy general rain has been falling in East and North Bengal during the greater part of the week, and in the other districts from about the middle of the week. The heaviest falls were on Wednesday the 9th, when many stations reported heavy falls, the largest amount being 9.7 inches at Chittagong. Some other heavy local falls are Matabhanga 7.6 inches on the 5th and Fallacatta 5.8 inches on the 7th. The mean rainfall for the different districts are all above the normal except for Orissa and Chutia Nagpur, there being defect of .4 inch in the former and .1 inch in the latter. Excess is slightly over an inch in East Bengal and Behar, .7 inch in South-West Bengal, and .2 inch in North Bengal. Falls for the week are uniform and generally under 2 inches in Orissa, between 2 and 4 inches in South-West Bengal, but with a few local falls between 6 and 9 inches. In East Bengal the falls are usually over 3 inches and above 6 inches at Munshigunge, Dacca, Naraingunge, Ramchandrapore, and Netrokona. In Julpigoree, Cooch Behar and the Darjeeling Hills, falls, except at a few stations, are between 10 and 20 inches, the largest being Kurseong 19 inches, Fallacatta and Darjeeling 17 inches, Siliguri and Buxar 16 inches. In Behar and Chutia Nagpur amounts are more variable, but usually lie between 2 and 4 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 11th of July 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94.9	72.8	86.1	77.9	82.0	-0.5	2.10	2.51	-0.41	4.0	4.0	0	6.27	3.87	20.55	14.74
South-West Bengal	98.7	75.1	88.8	77.6	83.2	-0.9	3.47	2.73	+0.74	5.4	4.4	+1.0	4.11	4.11	22.44	16.98
East Bengal	88.0	67.0	85.3	76.1	80.7	-1.2	4.75	3.69	+1.06	6.2	4.8	+1.4	5.95	5.57	28.53	28.20
North Bengal	90.8*	74.6*	87.3*	77.2*	82.3*	-0.8*	4.30	4.07	+0.23	6.0	4.4	+1.6	4.88	5.99	32.02	29.05
North Bihar	92.3	72.7	88.5	78.5	83.5	-0.8	4.73	3.38	+1.35	4.9	3.5	+1.4	4.94	5.44	19.21	1
South Bihar	90.0	70.0	87.5	78.0	82.8	-1.4	3.66	2.64	+1.02	5.2	3.9	+1.3	3.89	4.34	17.76	12.69
Chutia Nagpur	87.5†	70.2†	82.3†	72.4†	77.4†	-1.67†	2.55	2.67	-0.12	5.4	4.6	+0.8	3.73	4.53	14.84	14.20
Assam	90.6	73.3	87.1	77.1	82.1	-1.1										

* Maldah not included.

† Chyebass not included.

METEOROLOGICAL OFFICE, BENGAL ;

C. LITTLE,

The 15th July 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 6th to 12th July 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
July 1890...	6th ...	Inches. 29.575	81.8	87.2	10.9	76.3	85.9	82.5	1.066	81.2	86	Inches. 0.85
" "	7th ...	562	82.2	87.5	10.7	76.8	82.6	78.5	.921	76.7	83	0.11
" "	8th ...	577	82.8	89.0	12.4	76.6	83.6	79.5	.954	77.8	83	...
" "	9th ...	535	84.4	90.0	11.2	78.5	87.1	83.0	1.075	81.5	84	0.01
" "	10th ...	567	81.1	84.9	7.6	77.3	82.6	79.6	.968	78.2	87	4.17
" "	11th ...	583	81.1	86.0	9.8	76.2	81.1	78.5	.942	77.4	89	0.39
" "	12th ...	564	84.4	90.0	11.2	78.8	85.6	80.5	.974	78.4	79	...

The mean 10 A.M. pressure of the seven days Inches. 29.565

The mean temperature of the seven days 82.5

The extreme variation of temperature 13.8

The maximum temperature 90.0

The mean 10 A.M. relative humidity of the seven days % 84

The total fall of rain from 6th to 12th July 1890 Inches. 5.53

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 14th July 1890.

MEMORANDUM.

Quarterly review of births and deaths registered in twenty-seven of the principal towns of Bengal for the Quarter ending 31st March 1890.

BIRTHS.

The births registered in twenty-seven of the principal towns of Bengal during the three months ending with March 1890 were 5,691, and correspond to an annual rate of 21.44 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is .68 lower than the mean rate of the corresponding quarters of the past five years (1885—89) but higher than the rate of the corresponding periods of any of the past five years except 1885 and 1889, *vide* the figures below:—

	QUARTER ENDING 31st MARCH—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
	Ratio of births per 1,000 of the population per annum	...	...	...	...	...	...
	24.88	21.12	20.22	20.72	23.40	22.12	21.44

The births registered in each of the twenty-seven principal towns during the first quarters of 1890, 1889 and the average of the five years 1885—89 correspond to the following rates per 1,000 of the population of those towns:—

TOWNS.	RATIO PER MILLE.			TOWNS.	RATIO PER MILLE.		
	Quarter ending 31st March of—				Quarter ending 31st March of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	20.28	32.88	23.44	Narainganj	31.84	39.48	30.56
Midnapore	17.28	14.76	16.20	Chittagong	14.80	11.56	18.60
Hughli and Chinsurah	23.44	31.68	29.40	Comillah	31.96	35.80	33.16
Serampore	31.68	34.04	29.56	Patna	11.72	13.84	20.68
Uttarpara	23.92	28.28	23.20	Gya	22.40	20.96	24.32
Howrah	21.12	23.52	22.96	Arrah	33.28	15.00	11.68
Bali	19.40	25.08	19.68	Mozufferpore	19.08	11.32	15.00
Kishnagar	18.76	22.40	21.24	Durbhanga	30.48	35.68	31.80
Ranaghat	20.24	7.36	6.44	Chupra	26.32	24.32	15.96
Santipore	16.16	21.40	13.44	Bhaculpore	23.04	29.24	30.12
Jessore	9.40	19.28	15.62	Monghyr	31.24	56.28	31.20
Rampore Beaulah	30.08	43.00	31.32	Purneah	14.88	24.20	17.56
Darjiling	30.20	20.40	11.96	Poori	17.08	29.36	16.60
Dacca	16.80	19.04	16.96				

The above statement shows that birth registration is still extremely imperfect. The supposed standard in India is 40 per thousand, and it is probably even higher than this, but it will be seen that in not one of the twenty-seven principal towns of Bengal was this standard reached during the quarter under review. The nearest approach to it was attained in the town of Arrah, where the ratio was 33.28. In only eight, however, out of the twenty-seven principal towns of the province, viz., Arrah, Comillah, Narainjanj, Serampore, Monghyr, Durbhanga, Darjiling, and Rampore Beaulah, did the statistics of birth registration exceed 30 per thousand. In all the rest the rate was very low, especially in the towns of Jessore, Patna, Chittagong, and Purneah, where the statistics are so imperfectly recorded that the ratio was less than 15 per thousand. This result is very discouraging, and shows that the Municipal Commissioners do not pay attention to this elementary and very necessary portion of their duties.

DEATHS.

The deaths registered in the twenty-seven principal towns of Bengal during the quarter ending with March 1890 were 5,948, and correspond to an annual rate of 22.40 per 1,000 of the aggregate population of those towns. This rate is .44 higher than the mean rate of corresponding periods of the five years 1885—89, and is also higher than the recorded mortality of the first quarters of 1887, 1888 and 1889, *vide* the figures below:—

	QUARTER ENDING 31st MARCH OF—						
	1885.	1886.	1887.	1888.	1889.	Quarterly average of five years 1885—89.	1890.
	Ratio of deaths per 1,000 of the population per annum	...	...	...	...	...	...
	24.00	22.40	21.84	21.00	20.48	21.96	22.40

The deaths registered in each of the twenty-seven principal towns during the first quarters of 1890, 1889, and the average of the five years 1885—89 correspond to the following rates per 1,000 of the population of those towns :—

TOWNS.	RATIO PER MILLE.			TOWNS.	RATIO PER MILLE.		
	Quarter ending 31st March of—				Quarter ending 31st March of—		
	1890.	1889.	Average of five years 1885—89.		1890.	1889.	Average of five years 1885—89.
Burdwan	25.60	36.24	30.48	Narainganj	31.20	35.64	27.36
Midnapore	27.64	21.68	24.40	Chittagong	18.96	11.92	18.24
Hughli and Chinsurah	34.60	29.28	30.48	Comillah	37.96	23.08	28.12
Serampore	37.88	34.72	36.96	Patna City	10.56	12.20	14.32
Utterpara	36.28	21.92	27.56	Gya	34.92	26.32	32.04
Howrah	21.52	25.12	24.92	Arrah	18.96	9.20	7.36
Bali	20.76	23.72	22.64	Mozufferpore	12.44	9.88	15.74
Kishnagar	11.64	17.60	20.36	Durbanza	22.00	23.40	23.48
Ranaghat	22.08	3.68	5.04	Chupra	11.84	12.44	10.94
Santipore	16.36	10.76	13.44	Bhagulpore	19.84	16.48	22.32
Jessore	41.88	24.92	29.64	Monohyr	19.84	16.48	18.48
Rampore Beaulah	25.24	25.44	30.08	Purneah	21.04	50.84	36.20
Darjiling	33.60	24.76	17.64	Poori	84.24	46.80	42.60
Dacca	18.08	20.12	21.72				

The registration of deaths in most of the principal towns of Bengal is also unfortunately extremely imperfect. The total registered mortality of the quarter under review is a trifle higher, it is true, than that of the corresponding periods with which it is compared, but in individual cases it is deplorably defective and supplies very little scope for any observations on the comparative health of municipalities. It will be seen that the statistics vary very widely in different municipalities the natural climatic and other conditions of which are similar; for instance, Gya, Patna, and Arrah; Serampore, Utterpara, Ranaghat, Santipore and Kishnagar. There can be no reason why under proper administrative arrangement the registration should not be as complete at Patna and Arrah as at Gya or in Ranaghat, Santipore and Kishnagar as in Serampore and Utterpara. The Municipal Commissioners of those five towns, as well as the Municipal Commissioners of Howrah, Bali, Rampore Beaulah, Dacca, Chittagong, Mozufferpore, Chupra, Bhagulpore, and Purneah would do well to enquire into and test the accuracy of registration in their towns which are backward in this respect. The very high rate of mortality in Poori during the quarter under review is due to an epidemic of small-pox and cholera in that town.

The total mortality during the quarter under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding quarters of 1889 and the average of the five years 1885—89 :—

	RATIO PER MILLE DURING THE—		
	Quarter ending 31st March 1890.	Quarter ending 31st March 1889.	Quarterly average of quarter ending 31st March 1885—89.
Cholera	2.64	2.56	2.36
Small-pox ... ..	.72	.16	.16
Fever	9.08	8.00	9.24
Bowel-complaints	3.08	2.68	3.24
Injury ... ..	.48	.44	.36
Other causes	6.32	6.56	6.52

Compared with the average figures of the past five years it will be seen that the figures of 1890 are pretty even except small-pox. Compared, however, with the first quarter of 1889, there is a noticeable increase in the mortality of the 1st quarter of 1890 under the heads Fever and Small-pox.

The highest annual death-rates from the several registered death-rates occurred in the following towns :—

Cholera.	Fever.	Bowel-complaints.	Other causes.
Ratio per mille.	Ratio per mille.	Ratio per mille.	Ratio per mille.
Poori ... 19.20	Darjiling ... 23.92	Utterpara ... 12.32	Poori ... 16.28
Comillah ... 16.28	Jessore ... 22.12	Poori ... 9.84	Serampore ... 13.88
Narainganj ... 11.76	Gya ... 21.04	Serampore ... 9.20	Midnapore ... 12.72
Jessore ... 9.40			Gya ... 10.64
Utterpara ... 8.68			Utterpara ... 10.16
Hughli and Chinsurah ... 4.92			Bhagulpore ... 9.44
Howrah ... 4.84			Narainganj ... 9.20
Gya ... 3.92			
Chittagong ... 3.04			
Ranaghat ... 2.76			
Dacca ... 2.72			
Bali ... 2.68			
Midnapore ... 2.60			
Serampore ... 2.40			

From small-pox high mortality occurred only in the town of Poori, where there were 134 deaths from this cause; ratio 21·60 per 1,000 of the population.

The mortality of the quarter under review according to *Sex*, *Class* and *Age* was distributed as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	24·60	Christians ...	17·80	Under 1 year	147·64
Females ...	20·00	Hindus ...	23·12	1 year and under 5 years ...	24·04
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	123	Mahomedans ...	20·72	5 years " 10 " ...	11·73
		Buddhists ...	7·88	10 " " 15 " ...	8·68
				15 " " 20 " ...	13·80
				20 " " 30 " ...	13·36
				30 " " 40 " ...	16·80
				40 " " 50 " ...	19·12
				50 " " 60 " ...	24·96
				60 years and upwards	67·64

Detailed information regarding the vital statistics of the quarter under review will be found in the statement appended.

The 12th July 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the Quarter ending 31st March 1890.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																							
								Disease.																Sex.							
								Deaths from—																Deaths.		Ratio per 1,000 of population per annum.					
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births to every 100 female births.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population per annum in the corresponding quarter of the previous year.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.		
Burdwan ...	Burdwan ...	18,063	16,017	34,080	94	79	173	11'00	9'24	20'28	119	16	4	111	45	1	67	244	1'84	'44	13'00	5'28	'08	7'84	28'60	36'24	138	106	30'52	26'44	115
Midnapore ...	Midnapore ...	16,927	16,633	33,560	80	59	145	10'24	7'00	17'28	145	22	3	42	57	1	107	232	2'60	'32	5'00	6'76	'08	12'72	27'64	21'08	141	91	33'28	21'88	152
Hughli ...	Hughli and Chinsurah.	15,858	15,829	31,687	97	89	186	12'24	11'20	23'44	109	39	3	130	60	5	53	290	4'92	'36	16'40	7'56	'00	6'08	36'60	29'28	153	137	36'56	34'60	111
Serampore ...	Serampore ...	13,559	12,937	26,496	112	98	210	16'88	14'76	31'68	114	16	5	70	61	7	92	251	2'40	'72	10'56	9'20	1'64	13'88	37'88	34'72	151	100	44'52	30'88	144
	Utterpara ...	3,046	2,464	5,510	17	16	33	12'32	11'60	23'92	106	12	...	7	17	...	14	50	8'68	...	5'08	12'32	...	10'16	36'28	23'92	33	17	43'32	27'56	157
Howrah ...	Howrah ...	53,153	37,660	90,813	251	229	480	11'64	10'08	21'72	109	110	8	142	117	7	105	489	4'84	'32	6'24	5'12	'28	4'60	21'52	25'12	303	186	22'80	19'72	115
	Ball ...	7,838	6,979	14,815	32	40	72	8'00	10'76	19'40	80	10	1	31	15	1	19	77	2'68	'24	8'36	4'04	'24	5'12	20'76	23'72	53	24	27'04	13'72	197
Nuddea ...	Kishnagar ...	13,283	14,214	27,497	83	46	129	12'08	6'68	18'76	180	3	3	47	4	3	20	80	'40	'40	6'84	'56	'40	2'88	11'64	17'00	47	33	14'16	9'28	152
	Ranaghat ...	4,928	4,655	9,583	22	22	44	10'12	10'12	20'24	100	6	1	19	6	1	15	48	2'76	'44	8'72	2'76	'44	6'88	22'08	3'68	28	20	27'72	17'16	161
	Santipore ...	13,708	15,979	29,687	61	59	120	8'20	7'92	16'16	103	6	...	63	3	...	5	77	'80	...	8'48	'40	...	'64	10'36	10'76	46	31	13'40	7'76	172
Jessore ...	Jessore ...	4,830	3,665	8,495	10	10	20	4'68	4'68	9'40	100	20	1	47	4	8	9	89	9'40	'44	22'12	1'88	3'76	4'20	41'88	24'92	52	37	43'04	40'36	106
Rajshahye ...	Rampore Beaulah ...	10,768	9,025	19,791	78	71	149	15'76	14'32	30'08	109	2	...	97	7	2	17	125	'40	...	19'60	1'40	'40	3'40	25'24	25'44	73	52	27'12	23'04	117
Darjiling ...	Darjiling ...	4,579	2,439	7,018	23	30	53	13'08	17'08	30'20	76	...	...	42	4	1	12	59	...	...	23'92	2'28	'56	6'80	33'60	26'76	23	36	20'08	59'04	34
Dacca ...	Dacca ...	42,782	37,379	80,161	173	164	337	8'60	8'10	16'80	104	55	2	108	54	11	133	363	2'72	'08	5'36	2'68	'52	6'60	18'08	20'12	211	152	19'72	16'24	121
	Narainganj ...	7,605	4,966	12,501	54	46	100	17'16	14'84	31'84	117	37	...	17	12	3	29	98	11'76	...	5'40	3'80	'92	9'20	31'20	35'64	63	35	33'12	28'24	117
Chittagong ...	Chittagong ...	13,340	8,790	22,130	40	42	82	7'50	7'56	14'80	95	17	...	38	19	5	26	105	3'04	...	6'84	3'40	'88	4'68	18'96	11'92	82	23	24'56	10'44	235
Tipperah ...	Comillah ...	8,153	5,353	13,506	61	47	108	13'04	13'88	31'96	129	55	...	96	7	...	29	127	16'28	...	10'64	2'04	...	8'56	37'60	23'08	65	62	31'88	46'32	68
Patna ...	Patna City ...	78,762	81,475	160,237	255	215	470	6'36	5'36	11'72	118	29	16	166	61	10	142	424	'72	'36	4'12	1'52	'24	3'52	10'56	12'20	231	193	11'72	9'44	124
Gya ...	Gya ...	38,290	37,831	76,121	213	214	427	11'16	11'24	22'40	99	75	1	401	9	14	203	703	3'92	'04	21'04	'44	'72	10'64	36'92	26'72	384	319	40'08	33'72	118
Shahabad ...	Arrah ...	20,960	22,605	43,465	191	171	362	17'56	15'72	33'28	111	...	11	126	34	11	14	196	...	1'00	11'56	3'12	1'00	1'28	18'00	9'20	104	92	19'84	16'32	121
Morsherpore ...	Morsherpore ...	23,084	19,658	42,742	115	89	204	10'72	8'32	19'08	129	1	...	43	34	14	41	133	'68	...	4'00	3'16	1'28	3'80	12'44	9'88	74	59	12'80	12'00	106
Durbhanga ...	Durbhanga ...	33,774	32,322	66,096	249	235	594	15'04	15'40	30'48	97	15	2	260	26	2	119	364	'88	'12	12'08	1'56	'12	7'20	22'00	23'40	190	174	22'48	21'52	104
Saran ...	Chupra ...	25,116	26,154	51,670	173	167	340	13'36	12'92	26'32	103	...	6	36	32	7	72	153	...	'44	2'76	2'44	'52	5'52	11'84	12'44	78	75	12'40	11'28	109
Bhagulpore ...	Bhagulpore ...	29,640	27,813	57,453	183	148	331	12'72	16'58	23'04	123	8	...	122	19	...	136	285	'52	...	8'48	1'32	...	9'44	19'84	16'48	166	119	22'40	17'08	131
Monghyr ...	Monghyr ...	25,154	29,366	54,520	219	240	450	14'60	16'68	31'28	87	28	...	115	43	7	92	285	1'92	...	7'96	2'96	'48	6'36	19'80	16'88	141	144	19'06	19'60	101
Purneah ...	Purneah ...	8,463	6,553	15,016	23	33	56	6'12	8'76	14'88	69	1	...	60	8	4	6	79	'24	...	15'96	2'12	1'04	1'56	21'04	50'84	46	33	21'72	20'12	167
Pooti ...	Pooti ...	18,247	11,537	24,784	56	50	106	9'00	8'04	17'08	112	119	134	102	61	5	161	522	19'20	21'60	16'44	9'84	'80	16'28	84'24	46'80	318	294	90'00	79'72	135
TOTAL		350,992	310,888	1,061,574	2,962	2,729	5,691	11'16	10'28	21'44	108	702	261	2,418	819	136	1,678	5,948	2'64	'72	9'08	3'08	'46	6'32	22'40	20'48	3,394	2,554	24'60	20'00	123

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.																					
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM											
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.		
Burdwan ...	Burdwan ...	1	172	71	...	...	23'84	26'04	27'64	...	...	32	17	14	9	7	37	36	38	10	35	193'92	30'12	24'00	14'28	8'92	18'64	20'84	34'40	30'92	94'44
Midnapore ...	Midnapore ...	1	185	46	...	...	17'92	28'52	25'44	...	...	30	8	12	3	7	27	34	41	19	51	161'48	13'60	12'80	3'94	8'84	14'68	24'52	44'00	36'80	111'44
Hughli ...	Hughli and Chinsurah.	2	234	54	...	...	34'76	37'00	35'00	...	...	30	45	16	5	19	40	25	31	23	56	140'40	81'08	22'16	8'04	30'24	25'76	17'48	29'72	35'36	108'04
Serampore ...	Serampore ...	...	230	21	...	...	...	36'44	80'52	...	...	52	22	12	7	3	30	43	26	18	38	292'92	48'72	19'08	12'00	5'48	23'24	34'56	30'80	37'56	100'24
	Utterpara ...	...	50	...	...	...	...	37'52	...	...	...	9	4	...	1	1	10	9	7	...	9	213'60	38'00	...	8'32	9'08	34'72	33'92	30'92	...	138'44
Howrah ...	Howrah ...	10	358	121	...	...	21'08	21'00	23'56	...	...	67	60	26	13	26	75	81	50	33	58	129'88	43'32	16'52	7'88	14'16	15'20	8'40	17'00	38'60	61'84
	Bali ...	...	65	12	...	...	...	19'36	36'60	...	...	8	9	4	6	3	8	9	10	2	18	88'36	36'00	15'00	20'20	8'96	9'52	12'88	20'64	7'60	98'36
Nuddea ...	Kishnagar ...	1	55	24	...	...	7'04	11'80	11'56	...	...	12	4	3	...	3	7	15	4	10	22	96'76	6'48	3'48	...	5'80	5'80	14'00	4'88	18'88	50'92
	Ranaghat ...	...	36	12	...	...	...	19'64	35'16	...	...	6	2	5	2	3	8	5	4	5	8	115'92	10'04	17'92	9'20	19'24	21'20	16'00	15'92	27'60	56'24
	Santipore ...	...	53	24	...	...	...	10'24	10'72	...	...	15	6	1	6	6	9	4	2	7	21	71'04	8'28	1'04	8'24	16'76	7'32	3'68	2'24	12'16	42'76
Jessore ...	Jessore ...	1	44	44	...	...	24'68	38'00	46'04	...	...	20	10	1	2	5	8	13	13	11	6	412'36	80'06	5'04	12'00	27'32	15'88	33'96	49'52	78'12	52'40
Rajshahye ...	Rampore Beaulah ...	...	57	68	...	...	...	23'00	27'72	...	...	19	11	13	2	7	10	10	11	12	21	187'16	31'00	25'00	4'40	16'84	9'60	21'08	17'92	38'64	87'20
Darjiling ...	Darjiling ...	3	50	6	...	...	75'00	43'52	30'16	...	...	13	8	1	1	1	7	11	5	5	7	429'72	40'76	6'80	8'16	6'24	14'00	30'72	28'88	81'06	105'08
Dacca ...	Dacca ...	...	215	148	...	...	...	21'32	15'04	...	...	60	23	23	15	34	65	33	23	22	60	126'44	12'44	9'24	7'52	18'60	16'96	13'04	10'92	18'56	43'04
	Narainganj ...	...	52	46	...	...	...	32'88	29'84	...	...	21	6	1	8	2	8	20	7	5	20	301'04	21'04	3'00	28'16	7'64	11'96	37'40	20'03	25'52	122'08
Chittagong ...	Chittagong ...	8	18	75	4	...	40'20	13'40	19'60	66'04	...	17	7	4	6	3	15	19	8	13	13	120'76	14'20	6'40	9'28	4'96	12'96	22'76	14'16	47'92	65'32		
Tipperah ...	Comillah ...	1	32	94	...	...	35'04	21'52	50'84	...	...	21	10	7	6	9	18	14	7	8	27	282'80	36'56	17'16	16'44	28'60	26'04	28'08	21'28	30'92	159'28
Patna ...	Patna City ...	...	318	166	...	...	...	10'68	10'36	...	...	66	21	31	19	17	50	43	41	50	87	61'24	5'72	7'36	5'24	6'08	6'92	7'20	8'68	14'12	25'16
Gya ...	Gya ...	...	569	134	...	...	...	37'88	33'32	...	...	97	58	25	20	17	58	69	102	76	181	216'72	36'48	14'28	11'88	12'96	15'76	21'64	41'72	46'24	140'64
Shahabad ...	Arrah ...	...	143	33	...	...	...	18'44	17'08	...	...	37	75	14	11	9	25	22	12	11	40	114'88	13'52	10'88	9'92	11'40	13'72	13'64	10'20	14'20	55'44
Mozufferpore ...	Mozufferpore ...	...	87	46	...	...	...	11'56	14'72	...	...	34	16	9	9	3	12	11	16	7	16	142'40	15'80	8'00	9'08	3'62	5'56	6'28	12'76	8'60	26'28
Durbhanga ...	Durbhanga ...	...	200	104	...	...	...	21'48	23'68	...	...	57	40	29	21	15	23	34	27	41	77	146'40	21'00	14'80	15'08	14'88	6'88	12'16	14'48	37'36	96'40
Saron ...	Chupra ...	...	124	29	...	...	...	12'48	9'72	...	...	45	16	10	3	9	11	9	8	12	36	127'66	7'72	6'68	2'36	10'36	4'76	4'00	5'24	11'60	42'32
Bhagulpore ...	Bhagulpore ...	1	200	84	...	...	10'36	20'08	19'48	...	...	46	24	11	9	22	36	30	26	21	60	154'98	17'08	7'48	5'72	21'04	13'16	12'92	16'16	19'72	66'60
Monghyr ...	Monghyr ...	1	220	64	...	...	16'80	19'68	20'36	...	...	64	33	11	9	15	28	36	20	3	64	173'36	22'48	6'20	6'28	15'88	10'80	16'12	12'52	3'00	71'36
Purneah ...	Purneah ...	1	53	40	...	...	23'92	16'56	28'24	...	...	5	7	6	3	5	15	9	10	8	11	70'64	23'16	15'16	10'94	20'08	18'24	12'60	21'56	34'12	54'52
Poori ...	Poori ...	...	619	3	...	...	...	84'60	57'12	...	...	54	81	35	14	29	66	80	59	43	70	712'84	186'28	62'44	21'64	62'36	49'92	78'92	60'16	77'08	155'00
TOTAL		31	4,384	1,529	4	...	17'80	23'12	20'72	7'88	...	937	559	324	210	280	706	737	599	484	1,112	147'64	24'04	11'72	8'68	13'80	13'36	16'80	19'12	24'96	67'64		

OFFICE OF SANITARY COMMISSIONER FOR BENGAL;
The 12th July 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 28th June 1890.

BIRTHS.

THE births registered during the week ending with Saturday, the 28th June 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 16.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is .6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887 and 1889, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	22.6	17.5	13.7	17.6	16.3	17.5	16.9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.		7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.
Burdwan	21.4	32.0	7.6	10.8	Narainjanj	24.8	12.4	58.0	12.4
Midnapore	18.0	13.9	3.1	20.1	Chittagong	11.7	9.4	23.5	21.1
Hughli and Chinsurah	26.8	19.7	14.8	18.1	Comillah	15.4	38.5	11.5	38.5
Serampore	23.6	29.4	27.5	27.5	Patna City	6.2	7.5	7.8	11.4
Utterpara	18.9	10.9	15.5	13.2	Gya	19.8	16.4	13.3	21.9
Howrah	7.0	10.5	10.5	14.0	Arrah	13.2	8.4	17.9	10.8
Bali	15.1	15.1	9.5	20.5	Mozufferpore	10.9	7.3	18.2	15.8
Kishnagar	6.0	12.0	...	6.0	Durbhanga	11.0	20.5	17.3	28.3
Ranaghat	10.5	17.5	8.8	17.5	Chupra	9.1	4.0	3.0	8.0
Santipore	...	6.1	...	...	Bhagulpore	10.9	12.7	17.2	21.7
Jessore	23.6	31.5	36.8	34.2	Monghyr	17.2	20.8	23.5	24.4
Rampore Beaulah	22.2	...	59.3	...	Purneah	17.3	13.9	...	3.5
Darjiling	10.4	9.1	7.8	9.7	Poori	18.9	21.0	29.4	14.7
Dacca	...	...	...	...	

It will be seen that last week the highest birth-rate was returned from Comillah (38.5) and the lowest from Purneah (3.5). No births were registered during the week in Jessore and Darjiling towns.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 25.6 per 1,000 of the population. The rate of the week is .9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885 and 1889, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	29.2	22.1	20.3	23.4	28.7	24.7	25.6

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.		7th June 1890.	14th June 1890.	21st June 1890.	28th June 1890.
Burdwan	16.8	19.8	15.3	19.8	Narainjanj	24.8	24.8	16.6	20.7
Midnapore	20.1	15.5	20.1	20.3	Chittagong	30.5	11.7	16.4	23.5
Hughli and Chinsurah	33.8	29.5	19.7	27.9	Comillah	50.8	34.7	11.5	34.6
Serampore	13.7	23.6	15.7	29.4	Patna City	21.4	17.5	15.3	14.3
Utterpara	47.2	18.9	28.5	...	Gya	42.4	27.8	34.8	27.3
Howrah	13.6	20.6	12.0	8.6	Arrah	21.5	13.2	37.1	45.5
Bali	10.5	14.9	17.5	10.5	Mozufferpore	26.8	28.0	26.8	36.5
Kishnagar	9.5	9.5	...	...	Durbhanga	26.7	33.0	21.2	26.0
Ranaghat	12.0	6.0	6.0	...	Chupra	11.1	12.1	14.1	19.1
Santipore	8.8	14.0	15.8	7.0	Bhagulpore	22.5	24.4	18.1	16.3
Jessore	49.9	12.2	36.7	12.2	Monghyr	26.2	18.1	17.2	19.9
Rampore Beaulah	23.6	23.6	25.6	15.8	Purneah	27.7	3.5	10.4	27.7
Darjiling	59.3	14.8	37.9	59.3	Poori	142.7	125.9	563.0	245.5
Dacca	30.5	24.0	17.5	19.5					

It will be seen that last week the highest mortality occurred in the town of Poori (245.5) and the lowest in Santipore (7). No deaths were registered during the week in Utterpara, Kishnagar and Ranaghat towns.

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Poori	... 184.6	Darjiling	... 44.5	Serampore	... 17.6	Poori	... 21.0
Mozufferpore	... 19.5	Comillah	... 30.8			Midnapore	... 12.4
Arrah	... 14.4	Poori	... 29.4			Bhagulpore	... 9.9
Durbhanga	... 11.0	Purneah	... 27.7				
Patna City	... 2.3	Arrah	... 21.5				

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 7.1 from cholera, against 8.3 per 1,000 in the preceding week; .2 from small-pox, against .7; 9.3 from fever, against 10.1; 2.9 from bowel-complaints, against 2.2; .6 from injury, against .4; and 5.4 from other causes, against 5.2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	27.8	Christians	...	29.9	Under 1 year	...	163.9
Females	...	23.2	Hindus	...	27.0	1 and under 5 years	...	38.6
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	119	Mahomedans	...	22.2	5 " 10 "	...	13.7
						10 " 15 "	...	11.9
						15 " 20 "	...	11.6
						20 " 30 "	...	14.5
						30 " 40 "	...	22.5
						40 " 50 "	...	23.3
						50 " 60 "	...	34.9
						60 years and upwards	...	49.0

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 14th July 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 28th June 1890.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																							
		Males.	Females.	Total.	NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	DISEASE.								Ratio of deaths per 1,000 of population per annum in the previous week.	SEX.												
					Males.	Females.	Total.			DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.						DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.		Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.					
										Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.		Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Males.		Females.	Males.	Females.		
Burdwan	Burdwan	18,063	16,017	34,080	6	7	13	9.1	10.7	19.8	85	...	...	4	5	...	4	13	...	...	6.1	7.6	...	6.1	19.8	15.3	8	5	23.0	16.2	142
Midnapore	Midnapore	16,927	16,633	33,560	9	4	13	13.9	6.2	20.1	225	1	...	4	4	...	8	17	1.5	...	6.2	6.2	...	12.4	26.3	26.1	7	10	21.5	31.3	68
Hughli	Hughli and Chinsurah.	15,858	15,829	31,687	6	5	11	9.8	8.2	18.1	120	...	...	10	3	...	4	17	...	...	16.4	4.9	...	6.6	27.9	19.7	10	7	32.8	23.0	142
Serampore	Serampore	13,559	12,937	26,496	10	4	14	19.6	7.9	27.5	250	2	...	1	9	...	3	15	3.9	...	2.0	17.6	...	5.9	29.4	15.7	10	5	38.4	20.1	191
	Utterpara	3,046	2,424	5,510	1	...	1	9.4	...	9.4	No female birth.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah	Howrah	53,153	37,600	90,813	16	7	23	9.2	4.0	13.2	228	1	...	6	3	...	5	15	6	...	3.4	1.7	...	2.9	8.6	12.0	10	5	9.8	6.9	142
	Bali	7,836	6,979	14,815	1	3	4	3.5	10.5	14.0	33	...	...	1	...	...	2	3	...	...	3.5	...	...	7.0	10.5	17.5	...	3	...	22.4	No male death.
Nodda	Kishnagar	13,263	14,314	27,477	8	6	14	15.1	11.4	26.5	133	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ranaghat	4,028	4,653	8,683	...	1	1	...	6.0	6.0	No male birth.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jessore	Santipore	18,708	15,979	29,687	5	6	10	8.7	8.7	17.5	100	...	...	3	...	...	1	4	...	...	5.3	...	...	1.7	7.0	15.8	3	2	7.6	6.5	117
	Jessore	4,830	3,665	8,495	...	...	...	...	...	...	...	...	...	2	...	...	...	2	...	...	12.2	...	...	...	12.2	36.7	1	1	10.8	14.2	76
Rajshahye	Rampore Beaulah	10,766	9,025	19,791	8	5	13	21.0	13.1	34.2	160	...	...	5	...	1	...	6	...	...	13.1	...	2.6	...	15.8	23.6	3	3	14.5	17.3	83
Darjiling	Darjiling	4,579	2,439	7,018	...	...	...	...	...	...	...	...	...	6	1	...	1	8	...	...	44.5	7.4	...	7.4	59.3	37.0	3	5	34.1	106.6	32
Dacca	Dacca	42,782	37,379	80,161	10	5	15	6.5	3.2	9.7	200	...	1	13	4	1	11	30	...	6	8.4	2.6	6	7.1	19.5	17.5	24	6	29.2	8.3	351
	Narainganj	7,005	4,936	12,561	1	2	3	4.1	8.3	12.4	50	...	...	3	1	...	1	5	...	...	12.4	4.1	...	4.1	20.7	16.6	5	...	34.2	...	No female death.
Chittagong	Chittagong	13,340	8,790	22,130	5	4	9	11.7	9.4	21.1	125	...	...	3	3	...	4	10	...	...	7.0	7.0	...	9.4	23.5	16.4	6	4	23.4	23.7	98
Tipperah	Comillah	8,153	5,353	13,506	3	8	10	7.7	30.8	38.5	25	...	...	8	...	...	1	9	...	...	30.8	...	...	3.8	34.6	11.5	3	6	19.1	58.3	31
Patna	Patna City	78,762	51,475	130,237	19	16	35	6.2	5.2	11.4	119	7	1	13	5	2	16	44	2.3	3	4.2	1.6	6	5.2	14.3	15.3	20	18	17.2	11.5	149
Gya	Gya	38,290	37,831	76,121	13	19	32	8.9	13.0	21.9	65	1	...	28	...	2	9	40	7	...	19.1	...	1.4	6.1	27.6	34.8	24	16	32.6	22.0	148
Shahabad	Arrah	29,960	22,505	52,465	5	4	9	6.0	4.8	10.8	125	12	2	18	1	2	3	38	14.4	2.4	21.5	1.2	2.4	3.6	45.5	37.1	25	13	62.0	30.0	206
Mozafferpore	Mozafferpore	23,084	19,658	42,742	7	6	13	8.5	7.3	15.8	116	16	...	7	5	1	1	20	19.5	...	8.5	6.1	1.2	1.2	36.5	26.8	20	10	45.1	28.5	170
Durbhanga	Durbhanga	33,774	32,322	66,096	20	16	36	15.7	12.0	28.3	125	14	...	8	5	1	5	33	11.0	...	6.3	3.9	8	3.9	26.0	21.2	18	15	27.7	24.1	114
Sarun	Chupra	25,116	26,554	51,670	4	4	8	4.0	4.0	8.0	100	2	...	8	4	1	4	19	2.0	...	8.0	4.0	1.0	4.0	19.1	14.1	8	11	16.6	21.5	77
Bhagulpore	Bhagulpore	29,640	27,813	57,453	13	11	24	11.8	9.9	21.7	118	...	...	6	...	1	11	18	...	...	5.4	...	9	9.9	16.3	18.1	13	5	22.8	9.3	246
Monghyr	Monghyr	25,154	29,386	54,520	18	9	27	16.3	8.1	24.4	201	1	...	11	3	1	6	22	9	...	9.9	2.7	9	5.4	19.9	17.2	11	11	20.3	19.5	164
Purneah	Purneah	8,463	6,553	15,016	...	1	1	...	8.6	3.5	No male birth.	...	...	8	...	...	...	8	...	...	27.7	...	...	...	27.7	10.4	4	4	24.6	31.7	77
Footi	Poori	13,347	11,537	24,784	2	5	7	4.2	10.5	14.7	40	83	1	14	4	...	10	117	184.6	2.1	29.4	8.4	...	21.0	245.5	363.0	54	63	213.0	284.0	74
Total		550,596	510,598	1,061,194	380	357	737	9.2	7.7	16.9	380	385	5	100	40	18	110	592	7.1	2	9.3	2.9	6	5.4	25.6	26.9	206	228	27.8	23.2	119

DISTRICTS.	NAMES OF MUNICIPALITIES.	MORTALITY ACCORDING TO--																													
		Class.										Age.																			
		DEATHS AMONG--					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.									RATIO PER 1,000 OF POPULATION PER ANNUM.										
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	12	1				26.3	5.1			2			1	1	1	1	3	1	3	157.6			20.7	16.6	6.6	7.5	35.3	21.2	105.3	
Midnapore	Midnapore	12	5				24.1	36.0			2	2		1			5	1	1	5	140.0	44.2		17.1			46.9	14.0	25.2	142.1	
Hughli	Hughli and Chinsurah	15	2				30.9	16.9			4	2	2	1	1	3	2	1		1	259.0	46.9	36.0	21.0	20.5	25.1	18.2	12.5		25.1	
Serampore	Serampore	13	2				26.8	110.9			2	1			1	1	6	2	1	1	146.5	28.8			23.8	9.7	62.8	30.8	27.2	37.4	
	Utterpara																														
Howrah	Howrah	1	10	4			27.5	7.6	10.1		4		1			3	2		3	2	100.8		8.3			6.9	5.4		28.4	27.7	
	Bali		3				11.6				1									2	143.6									142.1	
Nuddea	Kishnagar																														
	Ranaghat																														
	Santipore		1	3			2.5	17.4							1					3					23.4					79.4	
Jessore	Jessore		1	1			11.5	13.6			1					1					268.0					25.8					
Rajshahye	Rampore Beaulah			6				31.8			3					1		1		1	384.2					12.5		21.2		54.0	
Darjiling	Darjiling		8				90.6					2	1			1	3			1		161.7	88.9			26.0	108.9			307.7	
Dacca	Dacca		23	7			29.7	9.3			4	6	4		1	3	1	3	2	6	109.6	42.3	21.0		7.1	10.2	4.5	18.6	22.0	56.0	
	Narainganj			2	3			16.4	25.3			2	1	1				1			372.8	45.6	30.4				24.3				
Chittagong	Chittagong		1	9			9.0	30.6			3	2		1		1	1	1	1		277.1	52.9		20.2		11.3	15.6	23.0	47.9		
Tipperah	Comilla		1	8			8.7	56.3			2			1	1			2	1	2	350.2				35.6	41.3			79.1	64.9	153.4
Patna	Patna City		33	8			15.7	10.2			8	6		5	2	3	5	4	3	8	90.5	21.4		18.1	9.3	5.4	11.2	11.0	11.0	30.1	
Gya	Gya		36	4			31.2	12.9			6	7	4	2		4	2	1	10	4	174.3	57.3	29.7	15.5		14.1	8.2	5.3	79.1	40.4	
Shahabad	Arrah		26	12			43.6	50.3			7	14	2				5	4	2	4	282.6	164.2	20.3				49.4	44.4	33.6	72.1	
Mozufferpore	Mozufferpore		14	16			24.2	66.7			1	6	6	4	2	2	3	2	1	3	51.5	77.2	60.3	52.6	34.3	12.1	22.4	20.8	16.6	64.1	
Durbhanga	Durbhanga		15	18			16.1	53.3			5	11	3	1	2	5	4		2		167.9	75.2	19.9	9.4	25.9	19.5	18.6		23.7		
Barun	Chupra		1	15	3		486.0	19.7	13.1		4	2	2			7	2	1		1	147.4	20.1	17.5			30.5	13.4	8.6		15.3	
Bhagulpore	Bhagulpore		2	13	3		269.4	17.0	9.1		9	1		1	1	3			1	2	392.0	9.6		8.3	12.4	14.3			12.2	28.9	
Monghyr	Monghyr			17	5			18.8	20.7		9	2	1			2	2		4	2	315.2	16.7	7.4			10.1	11.7		52.3	20.0	
Purneah	Purneah			3	5			17.0	45.9			1	1			1	4			1		43.0	32.9			15.6	72.9			64.4	
Poori	Poori		116	1			245.9	247.6			1	3	1	4	5	17	27	30	19	10	171.6	86.3	23.2	116.9	139.9	167.3	346.4	469.5	442.9	287.9	
TOTAL			4	393	126		29.9	27.0	22.2		80	69	29	22	18	59	76	56	52	62	163.9	38.6	13.7	11.9	11.6	14.5	22.5	23.3	34.9	49.0	

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 14th July 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.
IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.
Areas leased for irrigation up to the end of May 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.										Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual leases.						GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.		
										Kharif.	Rabi.	Sugarcane.	Bhadol.	Hot-weather.	Total.							
			C. ft.	C. ft.	C. ft.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	Inches.	Inches.	Inches.		
ORISSA	Cuttack	Taldunda, 1st reach	1,342	10,011	10,011	2'10	2'10	1'28	1'43		
		Ditto, 2nd "	596	1'40	1'40	3'40	3'50	
		Machgong	776	22,264	22,264	2'00	2'00	1'82	1'82	
		Kendrapara	1,067	108	93	48,450	48,450	2'45	2'45	0'69	0'77	
		Gabri	872'88	21	2	2,287	2,287	3'70	3'70	2'78	3'59	
		Do. extension	648	2,147	2,147	No gauge fixed.				
	Balasore	Patamondi	885	10,209	10,209	
		High Level, Range I	608	279	270	25,023	25,023	4'25	4'25	3'45	5'15	
		Ditto, ditto II	727'16	2,392	2,392	
		Ditto, ditto III	727'16	136	89	34,400	34,400	
Total		544	459	157,183	157,183		
Total of the corresponding period of last year		134,291	134,291		
SOUTH-WEST-ERN.	Midnapore	Midnapore	1,411	63,277	63,277	5'71	6'22	2'63	3'63	4 Days discharging. 6 Days discharging.	
		Panchkoarah	532	.....	.....	.....	.....	.....	.....	8,318	.....	.....	.....	.....	.....	8,318	7'41	7'41	0'95	1'88
	Howrah	Tidal reaches, Ranges I-II	.....	.....	.....	.....	.....	.....	.....	336	.....	.....	.....	.....	.....	336	.....	.....	.....	.....
		Total	.....	.....	.....	.....	.....	.....	.....	66,981	.....	.....	.....	.....	.....	66,981	.....	.....	.....	.....
SONN	Shahabad	Western Main	4,342	1,094	0'83 0'84 0'18 0'18 1'07 1'70 0'89 0'89 3'37 3'37 1'85 1'85	
		Buxar	1,236	220	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Arrah	2,000	866	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Eastern Main	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Patna	1,468	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Patna	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Patna and Gya.	Total	.....	.....	.....	.....	.....	.....	.....	21,799	23,174	191,058	.....	.....	.....	.....	.....	.....	.....	.....
		Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Grand Total	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Grand Total of the corresponding period of last year	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Correct area. The area shown in the return of April last was wrong. † Rainfall during April last was 0'03.

CALCUTTA,
The 15th July 1890.

G. A. G. SHAW, E.
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruth, Jellinghee, and Brahmapootra for the month of May 1890.

DATE.	RIVER GANGES.										RIVER BHAGIRUTH.				RIVER JELLINGHEE.				RIVER BRAHMAPOOTRA.			
	Miles.	Mirzapur.	Benares.	Buxar.	Dinapur.	Monghyr.	Sahabganj.	Rampore Benaulah.	Goalundo.		Bechampore.				Sarungunge.							
1st
2nd
3rd
4th
5th
6th
7th
8th
9th
10th
11th
12th
13th
14th
15th
16th
17th
18th
19th
20th
21st
22nd
23rd
24th
25th
26th
27th
28th
29th
30th
31st

CALCUTTA,
The 15th July 1890.G. A. G. SHAW, E.
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 12th July 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 12TH JULY 1890.			WEEK ENDING SATURDAY, THE 13TH JULY 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	287	63,950	653	309	65,850	1,042
Jute ...	7	3,350	57	15	9,125	150
Firewood ...	70	39,875	548	154	65,425	1,015
Other articles ...	722	1,53,375	1,869	880	2,09,715	3,276
Total ...	1,086	2,50,550	3,127	1,358	3,50,115	5,483

Eastern Bengal State Railway.

*Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of
April 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal ...	13,062	3,521	11,799	1,092	30,530	13,491	17,039	.....
Cotton, raw ...	1	872	17	380	873	397	476	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles ...								
b.—In boxes ...								
2.—Indian—	2,773	50	1,763	217	2,823	1,980	843	.....
a.—In bales and bundles ...								
b.—In boxes ...								
Grains—								
2.—Rice ...	3,756	6,541	2,023	4,583	10,297	6,606	3,691	.....
5.—Others ...	1,340	12,719	583	10,252	14,059	10,834	3,225	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed ...								
b.—Undressed ...								
2.—Skins of sheep, &c.—		324	3	356	324	359	.....	35
a.—Dressed ...								
b.—Undressed ...								
Jute—								
1.—Raw—								
a.—Screwed ...		1,345	.....	1,020	1,345	1,020	325	.....
b.—Unscrewed ...	3	7,139	.....	2,511	7,142	2,511	4,631	.....
2.—Gunny-bags and cloth ...	295	1,270	439	955	1,505	1,414	151	.....
Metals—								
1.—Copper, unwrought ...								
2.—Brass, unwrought ...								
3.—Brass and copper, wrought ...								
4.—Iron ...	1,282	110	954	122	1,392	1,076	316	.....
5.—Tin ...								
6.—Others ...								
Oils—								
2.—Kerosine ...	424	2	447	26	426	473	.....	47
3.—Others ...	415	35	190	14	450	204	246	.....
Oil-seeds—								
1.—Linseed ...								
2.—Rape and mustard ...								
3.—Til or gingelly ...								
4.—Niger ...								
5.—Castor ...	100	4,192	709	6,064	4,292	6,173	.....	1,881
6.—Poppy ...								
7.—Others ...								
Provisions—								
2.—Betel-nuts ...	121	975	148	220	1,096	368	728	.....
3.—Others ...	732	679	617	734	1,411	1,351	60	.....
Railway plant and rolling-stock ...	.....	.....	4,431	4,053	6,050	5,484	.....	2,434
Salt ...	6,471	10	3,263	9	6,481	3,272	3,209	.....
Sugar—								
1.—Drained ...								
2.—Undrained ...	1,247	954	540	2,895	2,201	3,444	.....	1,243
Tea—								
1.—Foreign ...								
2.—Indian ...	1	97	2	158	98	160	.....	62
Wood—								
1.—Timber ...	50	35	38	134	85	172	.....	87
2.—Firewood ...	2,225	.....	1,544	.....	2,225	1,544	681	.....
Tobacco ...	32	1,858	45	2,169	1,890	2,213	.....	323
All other articles of merchandise—								
1.—Unmanufactured ...	4,725	3,888	3,605	1,505	8,613	5,170	3,443	.....
2.—Manufactured ...								
Hay, straw, and wooloo (C. & S. E. Section) ...	407	1	425	8	408	433	.....	25
Total ...	40,062	40,617	33,011	40,137	1,06,076	73,148	39,004	6,136

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of April 1890.

INCREASES.						Tons.
Coal	...	...	...	...	...	17,039
For railway and flotilla consumption principally.	...	...	...	...	...
Cotton piece-goods	...	...	...	...	...	843
Ordinary fluctuation.	...	...	...	...	...
Rice	...	...	...	...	...	3,691
Principally from Forbesganj (49,000 maunds) and from Hilli (40,000 maunds). The period with which the comparison is made was one of partial failure of the rice crop.	...	...	...	...	...
Jute, unscrewed	...	...	...	...	...	4,631
Goalundo, Serajganj, Narayanganj, and Mymensing contributed this increase; a considerable percentage of last season's crop was withheld in hopes of a rise in prices.	...	...	...	...	...
Betel-nuts	...	...	...	...	...	728
Almost exclusively in receipts from the B. C. Flotilla.	...	...	...	...	...
Salt	...	...	...	...	...	3,209
The increase was in despatches from Chitpore.	...	...	...	...	...
Firewood	...	...	...	...	...	681
From the Southern Section.	...	...	...	...	...
DECREASES.						
Oil-seeds	...	...	...	...	...	1,881
Decreases in despatches from the Eastern Section generally; also from Serajganj. The crop was late, and the market is dull.	...	...	...	...	...
Railway plant, &c.	...	...	...	...	...	2,434
Completion of work on Behar Section.	...	...	...	...	...
Sugar	...	...	...	...	...	1,243
Falling off in despatches from Choondanga, Alamdanga, Jagati, and Goalundo. There has been no demand in Calcutta for raw sugar produced in Eastern and Central Bengal.	...	...	...	...	...

Calcutta, the 12th July 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for last 9 days of June 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days	198,100	84,660 0 0	5,76,550 0	90,560 0 0	29,200 0 0	2,04,420 0 0	29,000	37,000	66,000
per mile of railway	252	110 0 0	740 0	118 0 0	113 0 0	241 0 0	.....	.....	.....
for previous 25 weeks of half-year	4,075,251	18,65,580 0 0	1,37,94,203 0	24,78,683 0 0	4,73,988 0 0	*48,18,257 0 0	561,808	774,798	1,336,606
Total for 26 weeks	4,268,351	19,50,246 0 0	1,43,69,758 0	25,69,243 0 0	5,03,188 0 0	50,22,677 0 0	590,808	811,798	1,402,606
COMPARISON.									
Total for corresponding 8 days of previous year	154,623	67,184 0 0	6,18,569 0	89,711 0 0	29,514 0 0	1,86,409 0 0	26,072	27,143	53,215
per mile of railway corresponding period of previous year	230	160 0 0	919 0	133 0 0	131 0 0	264 0 0	.....	.....	.....
Total to corresponding date of previous year	3,871,690	18,89,401 0 0	1,32,76,563 0	21,59,059 0 0	4,93,400 0 0	45,46,950 0 0	564,423	628,080	1,192,512

* Audited up to week ending 17th May 1890.

† Excluding steamer earnings.

a Audited up to 7th June 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.			
	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	
773	1,86,409	277	2,04,420	267	673	21,35,442	244	768	*22,77,670	291	1,42,228	.....

* Audited up to week ending 17th May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days ...	31,990	12,320 0 0	38,440 0	2,580 0 0	50 0 0	14,950 0 0	4,890	2,720	7,610
Or per mile of railway ...	256	99 0 0	308 0	21 0 0	.....	120 0 0	.....	.....	.....
For previous 25 weeks of half-year ...	712,490	2,45,821 0 0	12,47,207 0	73,745 0 0	1,670 0 0	*3,21,236 0 0	88,855	50,761	139,616
Total for 26 weeks ...	744,480	2,58,141 0 0	12,85,647 0	76,325 0 0	1,720 0 0	3,30,186 0 0	93,735	53,471	147,206
COMPARISON.									
Total for corresponding 8 days of previous year ...	30,405	10,325 0 0	43,280 0	2,622 0 0	498 0 0	9,445 0 0	4,209	2,231	6,440
Per mile of railway corresponding period of previous year ...	243	51 0 0	346 0	21 0 0	4 0 0	76 0 0	.....	.....	.....
Total to corresponding date of previous year ...	768,179	2,69,614 0 0	14,30,526 0	82,427 0 0	5,547 0 0	3,87,588 0 0	103,428	103,763	147,191

* Audited up to week ending 17th May 1890.

a Exclusive of Rs. 10,911 on account of eight miles minimum charge during the half-year paid to Eastern Bengal State Railway.

† Corrected, as per half-yearly accounts.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	9,445	76	125	14,950	120	125	1,79,847	111	125	*1,65,727	102	.....	14,750

* Audited up to week ending 17th May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for last 9 days ...	20,890	6,370 0 0	36,830 0	1,130 0 0	150 0 0	7,650 0 0	3,280	920	4,200
Or per mile of railway ...	242	74 0 0	428 0	13 0 0	2 0 0	89 0 0	.....	.....	.....
For previous 25 weeks of half-year ...	427,843	1,30,231 0 0	5,56,703 0	51,914 0 0	4,179 0 0	*1,80,324 0 0	59,660	19,378	79,038
Total for 26 weeks ...	448,673	1,36,601 0 0	5,93,533 0	53,044 0 0	4,329 0 0	1,93,974 0 0	62,049	20,298	82,347
COMPARISON.									
Total for corresponding 8 days of previous year ...	18,674	5,994 0 0	42,170 0	1,867 0 0	1,132 0 0	8,963 0 0	2,972	2,678	5,650
Per mile of railway corresponding period of previous year ...	217	70 0 0	490 0	22 0 0	13 0 0	105 0 0	.....	.....	.....
Total to corresponding date of previous year ...	402,138	1,22,214 0 0	4,33,762 0	28,780 0 0	5,942 0 0	1,56,936 0 0	64,397	22,300	86,697

* Audited up to week ending 17th May 1890.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR LAST 8 DAYS OF JUNE 1889.			RECEIPTS FOR LAST 9 DAYS OF JUNE 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 30TH JUNE 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 30TH JUNE 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	8,963	105	86	7,650	89	86	74,279	86	86	*80,689	72	6,410	.....

* Audited up to week ending 17th May 1890.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.						Rs.
Approximate earnings for week ending 14th June 1890	...	...	...	...	...	11,344
Corresponding period of 1889	...	...	...	...	...	9,302
Increase	...	...	...	...	...	2,042
						Rs. A. P.
Receipts per mile for week ending 14th June 1890	...	...	...	...	...	222 6 11
Corresponding period of 1889	...	...	...	...	...	182 6 5
Increase	...	...	...	...	...	40 0 6
Receipts from 1st January to 14th June 1890	...	...	...	...	...	2,43,943
Corresponding period of 1889	...	...	...	...	...	2,41,878
Increase	...	...	...	...	...	2,065

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.						Rs.
Approximate earnings for week ending 21st June 1890	...	...	...	...	...	10,974
Corresponding period of 1889	...	...	...	...	...	11,894
Decrease	...	...	...	...	...	920
						Rs. A. P.
Receipts per mile for week ending 21st June 1890	...	...	...	...	...	215 2 10
Corresponding period of 1889	...	...	...	...	...	233 3 8
Decrease	...	...	...	...	...	18 0 10
Receipts from 1st January to 21st June 1890	...	...	...	...	...	2,57,825
Corresponding period of 1889	...	...	...	...	...	2,53,773
Increase	...	...	...	...	...	4,052



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JULY 23, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

CONTENTS.

	Page.		Page.
RESOLUTION on the Report of Midnapore Floods Committee	1553	RESULTS of the Meteorological Observations taken at the Alipore Observatory from 13th to 19th July 1890	1575
Rainfall, Weather, and State and Prospects of the Crops	1558	Statement showing the Result of the Registration of Births and Deaths in the Principal Municipalities in Bengal during the week ending 5th July 1890	1576
Prices-current (retail) of Food-grains, Firewood and Salt in the Head-quarter Station Bazzars of the districts of Bengal on the 15th July 1890	1562	Orissa Circle—Taldandah Canal System for the month of May 1890	1580
Meteorological Report of the Province of Bengal for the week ending Friday the 18th of July 1890	1568	Circular and Eastern Canals for the week ending 19th July 1890	1592
Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890	1570	East Indian Railway for the month of June 1890	1593
Result of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 13th to 19th July 1890	1574	Weekly Return of Traffic Receipts on Indian Railways	1594

RESOLUTION ON THE REPORT OF MIDNAPORE FLOODS COMMITTEE.

REVENUE DEPARTMENT—FAMINE.

Calcutta, the 18th July, 1890.

RESOLUTION.

READ—

Resolution of this Government, dated the 12th February, 1889.

Report of the Midnapore Floods Committee, dated the 1st June, 1889.

Letter No. 875A, dated the 11th November, 1889, from the Board of Revenue, with enclosures.

Note on embankments in Bengal, by the Chief Engineer, dated the 24th May, 1890.

1. In the autumn of 1888, the attention of the Bengal Government was forcibly drawn to the large loss of crops caused by floods in parts of the district of Midnapore, and particularly in an area of three or four hundred square miles, forming the basins of the Rasulpore and Haldi rivers. Measures were at once taken to relieve the distress of the cultivators, and enquiries were instituted through the Public Works Department to ascertain the origin of the obstruction to drainage in that district with a view to such remedial action as might be found practicable. It was subsequently determined to appoint a Committee, consisting of the Director of Agriculture, Major McArthur, R.E., and Mr. Reilly, a Manager of the Burdwan Raj estate part of which lies in the area affected, to make a further investigation. The report of this Committee was received in June, 1889, and immediate effect was given to some of the recommendations it contained. The Lieutenant-Governor, having since received the opinion of the Collector, the Commissioner, and the Board of Revenue on the subject, is now in a position to review the proposals made by the Committee.

2. In regard to the origin of the disaster, the report of the Committee indicates that severe floods, causing the greatest injury to crops, occurred in

1823, 1831, 1832, 1833, 1848 and 1850, a fact which indicates an original deficiency in the natural drainage of these basins, antecedent to the action taken within the last forty years. During that period Government has spent half a million sterling on embankments in Midnapore, four times as much as all the other landlords of that district. Moreover, a sea-dyke has been recently constructed in connexion with the tidal canal, which has, according to the Committee, conferred enormous benefits on the landlords and tenants by protecting their lands from the numerous inundations of the sea to which they were formerly exposed. It is desirable, in considering the general bearing of the report, to bear these facts in mind, as the Committee necessarily dwell mainly on the defects in the action of Government, giving less prominence to the natural agencies which produce floods in Midnapore, and to the success with which in many places these have been counteracted.

3. The Committee attribute great importance, as a subsidiary cause of the floods, to the embanking, by cultivators, for the purpose of reclamation, of salt-water marshes, or low-lying wastes, which has led to the silting up of the tidal creeks, notably those known by the names of Bagda and Mydakhally. As observed in the Public Works Department of this Government—

“These creeks for seven or eight months of the year discharge little or no natural drainage; but so long as the low country lying about them was, comparatively speaking, unembanked, the flood tides swept freely over it; while, with the return of the ebb, these accumulated waters were poured back into the channels with redoubled force, and so scoured them out. By this simple process the creeks were maintained by nature in an efficient state to discharge the drainage of the monsoon. During recent years, however, the large tidal basin has been embanked and reclaimed. The consequence is that the tidal waves are headed back by the embankment and deposit their silt in the bed of the creeks, which are rapidly rising above the level of the country which they formerly drained. Thus after heavy rainfall not only is the whole of the reclaimed country thrown out of cultivation, but the drainage of more inland tracts is blocked and their crops also are damaged and destroyed.”

The ryots themselves have urged the same views on Government by petition, and there seems to be no doubt as to the reality of the evil. Mr. Price, when Settlement Officer, indicated in detail the extent to which private persons possess interests in these lands, the proprietary right of which generally vests in Government. The Committee's recommendations in this matter are as follow:—

- (1) That the Public Works Department should determine and mark off the portion of the jalpai lands necessary to afford a sufficient spill area;
- (2) That a detailed survey should be made of the lands so defined, to ascertain what bunds should be removed and what compensation should be given for such removal; and
- (3) That meanwhile no new settlement of jalpai lands should be made, except for grazing purposes, growth of trees, or other purposes not involving the construction of embankments, and that the construction of new embankments, on jalpai lands already settled within the area considered sufficient by the Public Works Department for spill area, be stopped.

From paragraph 31 of the report it appears that both the Engineer officers and the natives of the district attach more importance to the effect of embanking the jalpai land than the Committee quite endorse; but in the face of the facts and arguments adduced by the Executive Engineer, the Lieutenant-Governor cannot but accept the conclusion that embankments are primarily responsible for the entire difficulty. Cross-dams have doubtless done much harm and accelerated the deterioration of the drainage channels, but until the main drainage channels had been very considerably silted up, cross-dams in them, as, *e.g.*, that at Birjoo, would not have been possible. The sections of the country between the marginal embankments of the Sadar and Bagdu nullahs show that the silting of that portion of the country through which the flood waters are supposed to escape, and of the beds of those nullahs (which are the main drainage lines), has been so great that practically the drainage has to be passed away on the top of an embanked ridge, and that a state of things has resulted which calls for some much more radical measures than any of those suggested by the Committee. It appears to be impossible to consider any portion, or even the whole of the jalpai lands, as “a sufficient spill

area," at least as a permanent remedy for the existing evil, inasmuch as these lands are already much silted up and are already considerably higher than the "protected" lands which have to be drained; but, as a remedial measure, the re-opening of these lands to tidal spill, and the absolute prohibition of any new embankment within their limits, will no doubt for a time put a check on the present rapidly increasing obstruction to the drainage of the country, and from this point of view His Honour accepts the conclusions arrived at, and the Board will be requested to make the necessary arrangements as soon as possible in communication with the Public Works Department of this Government.

4. The second cause of floods, as disclosed by the Committee's report, is the construction of cross-dams in the main drainage channels for the purpose of excluding salt water during the dry season. It is stated that—

"The immediate effect of a cross-dam in a tidal channel is to cause a deposit of silt below the dam. In the flood season, when the flow of drainage took place, the dams were cut, and there was a sufficient scour to clear out the beds of the channels. Some deposit did, however, take place, which it was important to remove, and this necessitated the construction of the dam at a lower point in the channel in order to facilitate its removal. Cross-dams were in former years, and as recently as the year 1884, constructed in the Itaberiah, Oodbadul khals, but they were replaced eventually by one dam in the Sadar khal, below the junction of these khals with the main drainage channel, and the last dam constructed in 1887 was made at Birjoo, some three miles only above Kalinagar lock. The effect has been to concentrate the deposit of silt carried up by the first rush of the flood tide and create an obstruction in the main channel.

"During our inspection of the Kolaberiah khal it was found that, although no obstruction was apparent in the bed at the sites of various cross-dams that had been constructed since 1882, at the Birjoo cross-dam there was a depth of water of only 1 foot below the dam, while the depth was $4\frac{1}{2}$ feet above.

"The accumulation of silt here was due to a deposit which had taken place during two years, and which extended to either bank. The cross-dam had been cut in the centre, but not to a width or depth sufficient to allow of drainage water from above being effectually discharged.

"At the same time, following on a recent settlement of the jalpai lands, bunds were being constructed by the chakdars (settlement-holders) along the margin of the channel, and the area of the channel was being contracted.

"Every condition existed for favouring the rapid silting up of the bed and blocking the drainage of the country above.

"It was shown by a cross-section of the country, taken during our inspection, that had free flow been allowed to the entrance of the tidal water, at a point about two miles above the cross-dam at Birjoo, the high tide in the flood season would have risen to $2\frac{1}{2}$ feet above the country immediately on either side of the Sadar khal, and 5 feet above it for a distance of upwards of half a mile on either side to the Government embankments."

The recommendations of the Committee in regard to cross-dams are as follow:—

"I. Cross-dams in the main arterial drainage channels should be removed, and the reconstruction of them should not be allowed save where they are really required in order to protect cultivated land in the neighbourhood of these channels from inundation by salt water. Under the notification to which we have already referred, the construction of these cross-dams without the previous permission of the Collector is prohibited in many, if not in all, the main drainage channels. Moreover the construction of cross-dams in any water-course protected by the public embankments specified in schedule D, Act II of 1882, is illegal, apart from any special notification. The Collector should not, we think, give his consent to the construction of cross-dams unless and until the Engineer has reported, after local inquiry, that the cross-dam is required in each case, and the Engineer should not report in favour of allowing cross-dams save when he has ascertained that the mischief likely to be caused by the construction of a dam is less than the injury which is likely to ensue from unpreventable inundation of cultivated land by tidal water. It must be remembered, too, that it is not enough, in order to justify the construction of these cross-dams, to be able to show that without them certain lands are liable to inundation. It is further necessary to ascertain that such lands cannot be protected by repairs of the existing "hussea" bunds along the sides of the channels, or by the construction of new "hussea" bunds. These "hussea" bunds should be repaired or constructed, as the case may be, at expense of the parties whose lands are protected in the manner provided in the Act. Where channels are protected by public embankments now under charge of public officers, and maintained at the public expense, either as being included in schedule D embankments, or as being situated in Government estates, such repairs of "hussea" bunds as may be required in order to permit of the removal of cross-dams, or prohibition of their reconstruction, will have to be undertaken by the Public Works Department. So also, when Public Works officers have, in connection with the coast or other canals, diverted the ordinary drainage into new channels (called pass khals), Government is responsible for keeping these channels in efficient condition and for maintaining the "hussea" bunds abounding them, so far as the channels are new. Though we are of opinion that the hasty construction of these dams across the main drainage channels without proper inquiry, and afterwards the failure to remove them

in due time, has caused much mischief, yet we are not prepared to recommend their wholesale removal or absolute prohibition in future, without having it carefully ascertained beforehand in each case that adequate precaution has been taken to guard against the mischief which might ensue from inundation of cultivated land by salt water. It may be well here to remark that we do not attribute blame to the officers of the Public Works Department, or to the Collector, for having hitherto allowed the construction of these dams in the past. Of the expediency of allowing them there has always been some doubt, and some of them have been constructed from time immemorial.

"Our remarks on the injury that results from these dams, and the inexpediency in general of allowing them to be made, do not apply to temporary dams made for the purpose of permitting the excavation of the beds of the channels themselves when these channels require to be cleared. But even as to temporary dams, made merely for the purpose of permitting excavation of the beds of water channels, care should be taken that they are removed as soon as the channels above them have been cleared. They cause a deposit of silt at or near them. This silt raises the bed of the stream below the dam, and this affects the level at which water flows off throughout the whole country served by the channel. In this way one cross-dam near the mouth of the Kolaberiah khal affected most injuriously the drainage of the Jellamutha and Sujamutha pergunnahs, and caused much loss to the Government khas mehals in the Burdwan estate—a loss which might have been almost entirely obviated by removal of the dam and clearing out of the deposit of silt caused by it between the site of the dam and the mouth of the khal. Since the date of our visit the silt caused to be deposited by the dam in question has been, at our suggestion, cleared away, with the result that the water-logged parts of Sujamutha at once dried up. Wherever, therefore, a cross-dam is constructed, even for a temporary purpose, the authority which constructs or permits its construction should be held responsible, not alone for the removal of the dam in due time, so as not to interfere with the general drainage of the country served by the channel, but also for the removal of any silt which may have been deposited below the dam, which would affect the level of the bed of the stream."

These proposals are approved by the local officers as well as by the Board, but the damage done by these cross-dams is doubtless so great that His Honour is inclined to think that the prohibition suggested in the opening lines of the above quotation from the report is not sufficiently stringent, and that no cross-dams should be allowed except temporary dams put by the Engineer in charge to allow of silt clearance above them, and that the officer putting such dam should be responsible for its complete removal at the earliest possible opportunity. All existing cross-dams, whether in major or minor drainage lines, should be removed. "Hussea" bunds are almost equally objectionable as contracting the area over which the tidal water can spill, and even though the plea be to keep the tide off otherwise culturable land, no increase in their existing number or section should be permitted. The Board add a recommendation in favour of the construction of sluices, which may be separately submitted in connexion with any particular case in which such a sluice may be desirable.

5. The third cause affecting the floods is the canalization of the Sarpai, as to which the Committee observe—

"It cannot be denied that the construction of a sluice at the mouth of the Sarpai, constituting as it does a permanent cross-dam, has accelerated the deposit of silt in the channel of the Bagda below it, and that too to such an extent as materially to reduce its discharging power. The silting up of the Bagda was, however, stated by Mr. Levinge, before the canalization of the Sarpai, to be only a question of time, and would have occurred apart from that canalization, owing to the causes described in the preceding paragraphs (I and II), had no remedy for them been applied."

As a further remedial measure they proposed to utilise the Balliaghoe branch canal as a drain for the country formerly drained by this portion of the Bagda. This, it was stated, will involve a flood embankment on the right side of the canal, and cutting of an outlet into the Bagda above the Sarpai sluice, and, it is supposed, will cost about Rs. 1,20,000. The work has now been partly executed, and even in its unfinished state has had the most marked success, having the effect of stopping the silting up of the Rasulpore river, and, perhaps, of slightly diminishing the effect of former silting, but unfortunately it appears to be doubtful whether this improvement will be permanent.

6. The Committee do not attribute great comparative importance to the obstruction to drainage caused by the Hidgellee Tidal Canal, as to which they remark as follows:—

"We visited, as already stated, certain places where it had been represented that the natural drainage had been obstructed by the Hidgellee Canal. We found that the old khals or drainage channels had been blocked at these places, but it was stated that sufficient waterway had been provided by the diversion of the old drainage into new channels which had been made by the Public Works Department. We observed, however, on the spot that

the pass khal provided was not in working order in the places visited, and that these khals do not provide as efficiently for the drainage of the country in the immediate neighbourhood of the canals as the old water-courses. Major McArthur gave instructions by which it is understood this defect will be remedied. The remodelling of the Hidgellee Tidal Canal—a project which, we understand, has been recently sanctioned by the Government of India—will, by the lowering of the bed of the canal, afford complete facilities for drainage of that part of country so far as it has been obstructed by this canal.”

The work of putting in order the outfalls, and deepening the bed of this canal, is now in progress, and will, it is believed, completely remedy the defects indicated.

7. The Committee properly point out that embankments Nos. 43, 44 and portions of Nos. 40 and 42 were removed from the schedule of works which Government is bound to maintain, without giving to those concerned the notice required by law. This was, no doubt, an error, and in future greater care must be taken to carry out in its entirety the procedure prescribed by the Act. The question whether the defect may affect claims of remission for revenue must be decided separately in each case. The report of the Committee does not indicate that the maintenance of these embankments would by itself have been a measure of any utility.

8. The following recommendations, less directly connected with the causes of the flood, have been made by the Committee:—The drainage of the Government land in the Argoal circuit at a cost of Rs. 50,000; a cutting across from the mouth of the Kholabaria khal to a point near the Kalinagar bungalow, also estimated to cost Rs. 50,000; and a sluice at Bhograi, to cost Rs. 6,000, also a new sluice at Baintghur estimated at Rs. 42,000. In view, however, of the arguments brought forward to show that the silting up of the Russulpore is due to the tidal water being confined to the bed of the river, instead of being able to spill over a wide extent of country forming a reservoir out of which a sufficient body of water returns at ebb tide to create an efficient scour, it seems doubtful whether these proposed cuts and sluice at Baintghur (that at Bograi is in quite a different locality) will not very soon share the fate of the Russulpore into which they would open, and silt up to such an extent as to be useless. Their usefulness depends entirely on keeping the Russulpore river open, and their action in doing so would not appear to be more than very partial and temporary; being of the nature of a continuation merely of the channel of the Russulpore, the action which has taken place there would equally take place in the new cuts. This matter should receive careful consideration in the Public Works Department before such large sums of money are expended on the proposed works.

9. The Committee observe—

“It is manifest that it will be of little use to have the main rivers or khals kept open by Government if the subsidiary channels which pass through several estates are neglected, and that it is useless for a particular zemindar to keep that part of a channel open which passes through his own estate, if his neighbour neglects his part. Many of these channels have been neglected by private owners, and it is obvious that it should not be open to any owner to keep in efficient working order or not, as he pleases, a channel which does not affect him alone, but others whose lands may be situated many miles away from his property. The want of practical interest in the maintenance of embankments and of power of co-operation on the part of the zemindars, was pointed out by Mr. H. V. Bayley in his notes on Midnapore in 1851, and he recommended that ‘they should be disconnected with all direct concern in payment for execution of repairs.’ The same principles apply with equal or greater force to the clearing of watercourses.”

On this view they recommend that charge be taken by the Public Works Department of all the main arterial drainage channels, and that they be kept up at the expense of the zemindars and ryots concerned in the manner provided in Parts II and VI of Act II (B.C.) of 1882. The Commissioner and Collector concur in this opinion, from which the Board do not dissent. The law gives the Collector a discretion to initiate proceedings of the kind indicated, and enquiries should be conducted by him at once, in communication with the Public Works Department, with a view to giving effect to the policy advocated by the Committee.

10. The thanks of the Lieutenant-Governor are tendered to the members of the Committee for their careful enquiry and full report.

ORDER—Ordered, that this Resolution be published in the *Calcutta Gazette*, and that copies of it be forwarded to the Public Works Department of this Government, and the Board of Revenue, Lower Provinces.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 19th July, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIVN.	1 Burdwan July 19, '90	2.00	Weather—hot with occasional rain. Transplantation of paddy going on. Sugar-cane doing well. Prices of common rice:—
	Culna ...	2.98	
	Cutwa ...	1.41	
	Ranigunge ...	0.83	
	2 Bankoora „ 19, '90	6.16	Weather—seasonable. Transplanting of <i>amun</i> still going on. Weeding commenced in <i>aus</i> fields in the Bishenpore subdivision. Common rice sells at 18 seers per rupee at Sudder and 17½ seers at Bishenpore.
	3 Birbhum „ 19, '90	2.59	Weather—seasonable. Prospects so far excellent. Transplanting has made great progress.
	Rampore Haut ...	2.70	
	4 Midnapur „ 19, '90	0.04	Weather—warm and cloudy. More rain in north and east of district than at head-quarters. Prospects of <i>aus</i> and sugarcane good. Winter rice doing well. Prices of common rice:—
			Srs. Burdwan ... 17 Culna ... 13 Cutwa ... 14½ Ranigunge ... 15 } per rupee.
	5 Hooghly „ 19, '90	0.84	Weather—cool and showery. All crops doing well. More rain desirable for high land crops. Prices of common rice:—
	Serampore ...	1.54	
	Jehanabad ...	0.37	
			Srs. Sudder ... 15 Contai ... 19 Tumlook ... 14 Ghatal ... 15 } per rupee.
	Howrah „ 19, '90	0.30	Weather—hot and cloudy. Occasional light showers. Transplanting of <i>amun</i> progressing. <i>Aus</i> and <i>amun</i> crops, jute, and sugarcane doing well. Price of common rice 13 to 14 seers per rupee.
	Uluberia ...	0.41	
			Srs. Sudder ... 13½ Serampore ... 16 Jehanabad ... 16 } per rupee.
	<i>Central Districts.</i>		
PRESIDENCY DIVN.	6 24-Perghs. July 19, '90	0.08	Weather—very hot with occasional light showers. Prospects of all standing crops favourable. Rain wanted in places. Prices stationary.
	7 Nuddea „ 19, '90	4.75	Weather—seasonable. On the night of the 16th four inches of rain fell at Ranaghat. Prospects of crops good.
	Kushtea ...	1.63	
	Meherpore ...	3.92	
	Chuadanga ...	1.21	
	Ranaghat ...	4.21	
	8 Khoolna „ 19, '90	1.68	Weather—rainy with breaks of bright sunshine. Prospects and condition of crops continue satisfactory.
	Bagirhat ...	1.04	
	Satkhira ...	1.13	
	9 Jessore „ 19, '90	0.90	Weather—seasonable. Transplanting of <i>amun</i> in progress. Jute doing well. Some damage to low land rice caused by floods in Narail.
RAJSHAHYE DIVN.	Jhenidah ...	2.58	
	Magura ...	1.15	
	Narail ...	1.88	
	Bongong ...	3.31	
	10 Moorshedabad „ 19, '90	2.56	Weather—seasonable. <i>Aus</i> doing well. <i>Amun</i> is being transplanted. Prospects favourable.
	11 Dinagepur „ 19, '90	1.58	Weather—seasonable at Sudder; very wet at Thakurgaon. Prospects continue favourable. Transplanting of <i>haimanti</i> paddy in progress. Price of rice as before.
	Thakurgaon ...	4.26	
	12 Rajshahye „ 19, '90	2.06	Weather—alternately hot and cloudy and rainy. Reaping of jute continues. Sowing of <i>haimanti</i> paddy proceeding. Prospects of <i>aus</i> paddy and other standing crops good. Rain has done much good.
	Nattore ...	5.61	
	Nowgong ...	3.28	
RAJSHAHYE DIVN.	13 Rungpur „ 19, '90	2.18	Weather—cool with frequent showers. All crops most promising.
	Kurigram ...	1.88	
	Gaibanda ...	1.83	
	Nilphamari ...	2.00	
	14 Bogra „ 19, '90	2.79	Weather—seasonable. <i>Aus</i> rice is being harvested, with good outturn. <i>Amun</i> is being transplanted. Jute is being cut and steeped. Sugarcane doing well. Common rice selling at 19 seers per rupee.
	Sherpur ...	2.52	
	Nowkhilla ...	1.53	
	15 Pubna „ 19, '90	2.55	Weather—cloudy and rainy. <i>Aus</i> and jute being harvested at Sudder and Serajgunge. Prospect of <i>amun</i> favourable. Prices a little lower.
	16 Darjeeling „ 19, '90	10.27	Weather—rainy. Jute and <i>bhadoi</i> crops doing well, but transplantation of winter rice in the Terai is stopped for heavy rain. <i>Haimanti</i> and <i>kagni</i> progressing well in the hills. Indian-corn coming to perfection. Potatoes being harvested.
	Siliguri ...	15.20	
	17 Julpigoree „ 19, '90	15.78	Weather—rainy and cloudy; very close at times. Average outturn of <i>bhadoi</i> paddy expected to be 12 annas and that of jute 11 annas. Transplanting of <i>amun</i> commenced in places. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca July 19, '90	2.11	Weather—rainy and cloudy. Harvesting of <i>aus</i> paddy and jute going on. <i>Amun</i> paddy doing well. Rivers rising fast. Common rice is being sold at from 12 to 16 seers per rupee.
	19 Farreedpur „ 19, '90	1.40	Weather—seasonable. <i>Aus</i> paddy and jute are being harvested, with good outturn. State of standing crops favourable. Price of rice stationary.
	20 Backergunge „ 19, '90	3.37	Weather—hot with occasional heavy showers. Prospects of standing crops good generally, but some slight damage has been caused in places by the rise of the rivers and by insects. Common rice selling at about 13 seers per rupee.
	21 Mymensingh „ 19, '90	6.99	Weather—cloudy and seasonable. Heavy showers during the week. Prospect of crops continues favourable. <i>Aus</i> crop plentiful and being harvested. Jute excellent. Transplanting of <i>amun</i> going on. Common rice sells at 13½ seers per rupee.
CHITTAGONG DIVN.	22 Chittagong „ 19, '90	2.79	Weather—seasonable. <i>Aus</i> crop sown to the extent of 12 annas; prospects good. In some parts of the district lands are being prepared for <i>amun</i> , and seedlings are being transplanted. Common rice selling at 17 seers per rupee.
	23 Noakholly „ 19, '90	3.71	Weather—seasonable. <i>Aus</i> crop is being reaped in places. Sowing of <i>amun</i> going on. Prospects fair. Price of rice varies from 14 to 16 seers per rupee at Fenny.
	24 Tipperah „ 19, '90	3.29	Weather—cloudy and damp. <i>Aus</i> being reaped. <i>Amun</i> thriving. Rice selling at Sudder from 12 seers 12 chittacks to 21 seers 5½ chittacks per rupee.
	25 Chittagong Hill Tracts. „ 17, '90	2.37	Weather—seasonable; showery with occasional sunshine. Strong south-west wind. Early <i>jum</i> paddy ripening. Cotton progressing. Lands are being ploughed for late paddy. Common rice is being sold at 11 seers 6½ chittacks per rupee.
BEHAR.	Hill Tipperah „ 18, '90	1.94	Weather—hot. <i>Aus</i> paddy still being harvested. Transplanting of <i>amun</i> progressing. Jute doing well. Prices almost stationary.
	26 Patna „ 19, '90	4.71	Weather—hot. Transplantation of paddy has commenced. <i>Bhadoi</i> crops growing well. In some places sowing of <i>bhadoi</i> and paddy still continues. Prices of food-grains almost stationary.
	Barh „ ...	0.89	
	Behar „ ...	1.38	
PATNA DIVN.	Dinapore „ ...	1.28	
	27 Gya „ 19, '90	1.74	Weather—hot and cloudy. Fields are being prepared for transplantation of paddy. Prospect of <i>bhadoi</i> has been a little reduced owing to constant rainfall. Sugarcane doing well. Prices of food-grains almost stationary.
	28 Shahabad „ 19, '90	2.84	Weather—generally cloudy. Prospects of crops good. Price stationary.
	Buxar „ ...	4.17	
BAGLPORE DIVN.	Bhabnah „ ...	2.40	
	29 Durbhunga „ 19, '90	6.94	Weather—cloudy. Prospects of <i>bhadoi</i> continue to be very promising. Transplantation of rice and <i>marua</i> in progress. Indigo manufacture going on. Prices remain stationary.
	Somastipur „ ...	1.89	
	30 Mozufferpur „ 19, '90	5.27	Sufficient rain during the week. Weather fairly cool. Prospects of all crops continue good. <i>Cheena</i> being gathered in some places.
BAGLPORE DIVN.	Hajipur „ ...	1.00	
	Sitamarhi „ ...	5.16	
	31 Sarun „ 19, '90	4.34	Weather—very squally and wet. Rain almost daily. Rice crop very promising. Some fine weather wanted for indigo and <i>bhadoi</i> crops.
	32 Champaran „ 19, '90	5.38	Weather—wet, but very hot. Rain almost daily all over the district. A week's sunshine needed to allow of <i>makai</i> and <i>marua</i> being weeded. Transplantation of paddy going on. Indigo manufacture progressing. Prices almost stationary.
BAGLPORE DIVN.	Bettiah „ ...	3.26	
	33 Monghyr „ 19, '90	5.75	Weather—sultry, rainy with overcast sky. Prospects of <i>bhadoi</i> crops good. <i>Makai</i> and <i>marua</i> sown, also <i>aghani</i> rice, and transplantation begun. Indigo doing well.
	Begusarai „ ...	1.34	
	Jamui „ ...	4.54	
BAGLPORE DIVN.	34 Bhagulpur „ 19, '90	4.48	Weather—rainy with very little sunshine. Transplantation going on. There has been lately too much rain for <i>marua</i> , but prospects of rice are excellent.
	Banka „ ...	1.20	
	Mudhepura „ ...	3.41	
	Sopool „ ...	2.01	
BAGLPORE DIVN.	35 Purneah „ 19, '90	6.53	Weather—cloudy and sultry. A break in the rains required in Kishengunge. Transplantation of rice going on. Jute prospects favourable. Indigo manufacture indifferent. The Mahanuddy reported to be flooding the south-east of district.
	Kishengunge „ ...	6.72	
	Arrareah „ ...	7.03	
	36 Maldah „ 19, '90	2.07	Weather—hot and cloudy. <i>Bhadoi</i> paddy in progress. Transplantation of winter rice going on. State of indigo and mulberry good. Common rice selling at an average of 15 seers per rupee.
BAGLPORE DIVN.	Chanchal „ ...	2.75	
	Shibgunge „ ...	1.64	
	Gajole „ ...	5.18	
	37 Sonthal Fergha „ 19, '90	5.57	Weather—generally wet and cloudy. The rainfall during the past week has been very seasonable. Sowing and transplantation of paddy in actual progress. All crops very satisfactory.
BAGLPORE DIVN.	Deoghur „ ...	1.77	
	Godda „ ...	3.49	
	Jamtara „ ...	4.25	
	Pakour „ ...	0.87	
BAGLPORE DIVN.	Rajmehal „ ...	5.04	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttaek July 19, '90	1.18	Weather—seasonable. <i>Beali</i> is being weeded. Transplantation of <i>sarad</i> going on. Prospects generally good.
	39 Pooree „ 17, '90	0.10	Weather—seasonable. Puddling and transplantation of <i>sarad</i> crop going on.
	Khoorda „ „	2.13	<i>Beali</i> crop being weeded. State of miscellaneous crops not good in Khoorda owing to excessive rain. Price of common rice stationary.
	40 Balasore „ 19, '90	0.51	Weather—cloudy, but generally dry. Transplantation and puddling of rice crop in progress. More rain wanted in the Sudder subdivision. Number of coolies on relief-works, 35.
CHOTA NAGPORE.			
South-West Frontier Agency.			
CHOTA NAGPORE DIVN.	41 Hazaribagh July 19, '90	3.17	Weather—seasonable. Sowings of paddy and <i>bhadoi</i> crops completed in most places. Lands being prepared for transplanting. All crops doing well and prospects good. Prices about stationary.
	42 Lohardugga „ 19, '90	3.01	Weather—warm and cloudy. Sowing of the winter rice crop is being carried on actively in the Palamow subdivision. It is nearly finished in the head-quarters subdivision. Prospect of <i>bhadoi</i> crop good. Prices steady.
	Palamow (up to 14th July)	1.02	
	43 Singhbhum July 19, '90	0.19	Weather—seasonable. All crops doing well. The break in the rains has done much good.
	44 Manbhum „ 19, '90	3.58	Heavy rain with alternate sunshine. Transplanting in full swing. Prospects fair. Common rice selling at from 19 to 20 seers per rupee.
	Govindpore „ „	1.34	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 22nd July, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.